J. W. Manning.
Vanderbilt University
Nashville, Tenn.

1929

MANUAL OF INFORMATION ON CITY PLANNING AND ZONING

LONDON: HUMPHREY MILFORD
OXFORD UNIVERSITY PRESS

MANUAL OF INFORMATION

ON

CITY PLANNING AND ZONING

INCLUDING REFERENCES ON REGIONAL, RURAL, AND NATIONAL PLANNING

BY

THEODORA KIMBALL

LIBRARIAN, SCHOOL OF LANDSCAPE ARCHITECTURE, HARVARD UNIVERSITY
HONORARY LIBRARIAN, AMERICAN CITY PLANNING INSTITUTE
ASSOCIATE, BRITISH TOWN PLANNING INSTITUTE

CAMBRIDGE
HARVARD UNIVERSITY PRESS
1923

COPYRIGHT, 1923, BY HARVARD UNIVERSITY PRESS

ALL RIGHTS RESERVED

PRINTED AT THE HARVARD UNIVERSITY PRESS, CAMBRIDGE, MASS., U.S.A.

To HERBERT HOOVER

The enormous losses in human happiness and in money which have resulted from lack of city plans which take into account the conditions of modern life need little proof. The lack of adequate open spaces, of playgrounds and parks, the congestion of streets, the misery of tenement life and its repercussions upon each new generation, are an untold charge against our American life. Our cities do not produce their full contribution to the sinews of American life and national character. The moral and social issues can be solved only by a new conception of city building.

From Mr. Hoover's address at the meeting of May 10, 1922, called by the Russell Sage Foundation, on the Plan of New York and its Environs

PREFACE

THE considerable demand for collected current information on city planning and zoning, particularly from cities and towns initiating work in this field, has been brought to the attention of the writer by the numerous inquiries about city planning received at the Harvard University School of Landscape Architecture, the National Conference on City Planning, and the Division of Building and Housing of the Department of Commerce, from municipal officials, plan commissions, engineers, landscape architects, architects, real estate boards, lawyers, chambers of commerce, civic improvement societies, students, and interested citizens. It has seemed worth while to compile in book form the information necessary to answer the greater number of these inquiries.

The first part of the book is directed more especially to those just beginning their studies in this field, who may desire to know what city planning is and what it does for a city, what books and magazines to read about it, what organizations are backing it, what funds are being appropriated for it, and how, having come to believe in it themselves, to launch a campaign for the education of others. In these pages, perhaps the beginner may gain an idea why the citizens of St. Louis recently passed bond issues totalling $87,000,000 to carry out the public works laid out on their city plan, and why over three hundred cities and towns have appointed commissions to work on phases of city planning and zoning.

From the shorter and longer lists of references included in the *Manual*, libraries and plan commissions may select what they wish to buy for their shelves, and from the extensive bibliography, the city official may find precedent or parallel for his problems, and the student a guide to matter for his essay or an outline for systematic reading. In fact, the second or bibliographical portion of the book is probably the most comprehensive list of references on the subject available.

In 1915, the National Conference on City Planning published a *Classified Selected List of References on City Planning*, by the writer, arranged in the same fashion as the bibliography in this present book — following the outline classification published in 1913 as *City Planning, a Comprehensive Analysis*, by Professor J. S. Pray and the writer. Such of the references in the 1915 List as have not been superseded by later articles or books have been retained in the *Manual*, but these have proved to be only a small proportion of the more than two thousand references comprised in the present bibliography, in view of the tremendous

growth of interest and activity in the field during the last eight years. In the case of subjects recently come to public attention, such as aerial mapping, a longer list of references has been given than to subjects more completely epitomized in the standard American reference books on city planning, of which *The Planning of the Modern City*, by Mr. Nelson P. Lewis, and *The Law of City Planning and Zoning*, by Frank B. Williams, Esq., should be mentioned as undoubtedly the most important. In the case of some subjects in less developed portions of the field, the references given are inadequate because of the dearth of printed information. In all cases there has been an attempt to give references of practical value, with cross references to names of American cities illustrating the subject in question, and to give not only a variety of sources, but also especially sets of periodicals available in libraries of smaller cities.

The Table of Contents is expected to serve as an index to the various features of the first part of the book, but a full subject index has been provided as a key to the bibliography. It has been suggested that selected headings from this index might well be used as a "subject heading list" for an office library on city planning. The outline of the bibliography, which precedes the references, is condensed from the Pray and Kimball 1913 classification scheme before mentioned, and thoroughly revised to accord with recent progress in the subject. Where the sequential classification numbers vary from those in the 1913 scheme, this may usually be counted a matter of revision or addition, although in a few cases new numbers have been used for greater convenience in arranging the bibliography.

In order to make the price of the book as low as possible, no author index to the bibliography has been included. It was felt by those members of the National Conference on City Planning who were consulted that the author index would be of little use as compared with the subject index, and that therefore the extra expense entailed would not be justified. Since the authors' names are printed in black type, the reader who desires the writings of a particular author on given subjects should have no difficulty in finding these. The reader sufficiently interested in the whole subject to be desirous of finding out how many articles by an author have been included in the entire *Manual* will have no recourse but to run his eye through the black names on all the pages, thereby, perhaps, learning something else as well for his pains.

Acknowledgment is gratefully made to the many people concerned in city planning and allied work who have given information for various sections of this *Manual*, and especially to Professor George C. Whipple and Professor James Ford of Harvard University, Flavel Shurtleff, Esq., Secretary of the National Conference on City Planning, Dr. John M. Gries, Chief of the Division of Build-

ing and Housing of the Department of Commerce, Mr. Lawrence Veiller, Secretary of the National Housing Association, Dr. Shelby M. Harrison and others of the Russell Sage Foundation, Edward M. Bassett, Esq., of New York, Mr. H. H. B. Meyer, Chief Bibliographer of the Library of Congress, and Miss Rebecca B. Rankin, Librarian of the New York Municipal Reference Library. The cooperation afforded by the Library of the Harvard School of Landscape Architecture, with the sanction of Professor James Sturgis Pray, has made possible the assembling of the extensive bibliography; and the skill, enterprise, and patience of the writer's assistant, Miss Mildred R. Bradbury, have constantly promoted progress. Above all, the assistance and encouragement rendered by Professor Henry V. Hubbard of the School at all stages of the *Manual's* preparation have increased its scope and caused to appear what we hope will prove a useful handbook for American students of city planning.

T. K.

Cambridge, June 24, 1923

CONTENTS

City Planning Facts: An Introductory Statement of Principles and Procedure . . . 3
Ten References for the Shelf of a City Planning Commission 12
The National Conference on City Planning 13
Contributed by Flavel Shurtleff, Secretary
Services performed by The Division of Building and Housing, Department of Commerce, Washington . . . . . *Contributed by* John M. Gries, Chief 15
National Organizations active in promoting City Planning 17
State Organizations to promote City Planning 18
A List of American Periodicals devoting space to City Planning and Zoning 20
L'Union Internationale des Villes and the American Centre of Civic Documentation . 23
Contributed by Stephen Child
Records of City Planning Progress in the United States 24
Town Planning in other Countries 26
Suggestions on conducting Publicity Campaigns for City Planning and Zoning . . . 33
Lantern Slides and Films on City Planning Subjects 38
Twenty-five References for a City Planning Library 40
Short List of Typical American City Plan Reports 43
Universities, Colleges, and Technical Schools offering Instruction in City Planning . 47
Selected List of Students' Theses on City Planning Subjects, Harvard University School of Landscape Architecture, prepared under the direction of Professor James Sturgis Pray 49
Municipal Appropriations for the work of City Planning Commissions 51
Contributed by The National Conference on City Planning
Bibliography: A Selected List of References covering the field of City Planning 53–188
Outline of the Bibliography (*Arranged in Classified Form*) 55
Subject Index to the Bibliography (*Alphabetical*) 177

CITY PLANNING

ISSUED UNDER THE AUSPICES OF
THE NATIONAL CONFERENCE ON CITY PLANNING

CITY PLANNING FACTS

AN INTRODUCTORY STATEMENT OF PRINCIPLES AND PROCEDURE

INDUSTRY AND HOMES

Cities have grown with the development of manufacture and trade, and more and more people have come to live in the city to be near the work offered in its factories, shops, and offices. Reduced to the very simplest elements, life in a city may be expressed in terms of places of work and places for people to live and the means of transportation between; and, since life cannot continue all work and no play, we must have places for recreation as well as workshops and homes.

When we speak of planning the city, — or city planning, — we are talking about the arrangement for convenience and comfort of the greater or smaller groups of these homes and shops and roads and parks, so that people who live in cities may have the fullest measure of health, wealth, and happiness.

CITIES, TOWNS, AND REGIONS

The city, however, is not a thing unto itself: it is a vital part of the region in which it is situated. It depends on many smaller towns and agricultural areas for its food supplies and for customers to purchase its products. In many respects the interests of every unit in the whole region are bound up together, and the welfare of each is dependent on the welfare of the whole, just as the interests of regions and states are bound together in national interests, and their welfare dependent on the integrity and prosperity of the nation. Thus city or town planning should not be thought of as sharply divided off and limited by the conditions within existing boundaries of city or town. We must think of it as the planning of a city or town in the light of its relations to other cities and towns and to the surrounding rural areas. For example, the roads from the country over which food supplies are brought to the city must be made to come in as directly as possible, and there must be enough public open land preserved in the region so that future generations may not lack for supplies of water and fresh air.

REMEDIAL AND PREVENTIVE PLANNING

Some of the cities now existing have been wisely planned, but most of them have grown up haphazard in a jumble of factories and homes and unrelated streets. It is not surprising that they are afflicted with various inconveniences and ills. There are slums and "blighted" districts, and people have trouble in finding

homes and in getting from home to work. We might liken such a city to a half-sick man who has let himself run down, overwhelmed by the things that have happened to him one after another. Just as proper medical skill can help him gradually to recover his health, a wise program of replanning and readjustment can help a city to correct its worst physical defects. Similarly, we may liken undeveloped land, or perhaps a very small village, to a strong and healthy child. Just as he may be guided to become a robust man in full enjoyment of his powers, the open land or little village may be planned to offer the best opportunities for the full development of community life. To borrow medical terms, in one case we have remedial planning, and in the other, preventive planning. By forethought and direction we may save the future from the mistakes of the past.

WHAT CITY PLANNING INCLUDES

City planning is the control and guidance of the physical development of cities and towns. According to the criterion suggested by Mr. Edward M. Bassett for the regional Plan of New York, it deals actually with those elements of city life which can be expressed on *maps* — with streets and buildings and parks, with railroads and docks. While city planning must take into consideration many intangible facts, its recommendations must be concrete. They must be capable of being shown on a map, and they must be accompanied by a program of regulation, legislation, and finance that will make the map gradually come true on the ground. This "dynamic" plan or map is not fixed once for all and incapable of change; its main outlines being fixed, its detail is constantly developing as the city grows and changes.

It is easier to understand what city planning includes if we think of it in terms of this living map. There is first the *street plan,* with its main thoroughfares, and its secondary streets for business and residence. Some of the main streets extend off into the country and form *motor transport highways* between farm and city or between one city and another. There are *trolleys* and perhaps *rapid transit lines.* There are *railroads* coming into the city, with passenger stations and freight terminals. There may be approaches by river or sea, with ranges of *docks* and *piers.* There are coming to be *airplane landing fields.*

The green areas of the *parks* and *parkways* stand out on the map. There are small in-town parks and large outlying reservations, connected by strands of parkway and boulevard. There are *playgrounds* and recreation buildings dotted over the city, mostly beside *school buildings;* and there are bathing beaches and recreation piers, if the city is fortunate enough to have available waters. There are *public buildings* conveniently grouped in a main civic center and smaller local centers.

Besides the public ways and open spaces and the public buildings, there are large numbers of *private buildings* on the map. The development of these cannot be controlled in the same way as streets and parks, which the city owns,

but must be guided by *regulations* imposed by the city for the general welfare. City planning therefore includes "zoning," or the public regulations governing the use of private real estate (see "A Zoning Primer," issued by the Department of Commerce); and zoning districts must be distinguished on the map. Zoning regulations determine the effective use of the land for residence, business or manufacturing, and the height and ground area of the structures which may be built upon the land. Zoning regulations and building laws work together to prevent the unsafe, unhealthy crowding of buildings and to foster types of dwellings that will make good homes.

PLANNING COMPREHENSIVELY

If we go up in an airplane and look down upon the city, we may see all these many elements of the city plan in one comprehensive view, such as we could never have if we rode around the city and thought only about streets and buildings, or rode around the parks and thought only about green spaces. It is this kind of large mental view which we need in developing the city plan for the future. Mr. Thomas Adams has said:

> Cities do not grow — all of them are planned. Most of them are planned in piecemeal fashion by surveyors acting for real estate owners, by railway engineers acting for their shareholders and traffic superintendents, and by individual architects or builders acting for their separate clients. The ultimate result is a haphazard collection of plans of land, means of transportation and buildings. But the city interests are not entirely ignored, because every city has more or less power to control these separate plans in the interest of safety, health and convenience. Such control, however, is within restricted limits and the evils that arise from dealing with related parts and problems of the city, as if they were unrelated and disconnected, must remain in the absence of any planning of the city as a comprehensive whole.

The major street plan should be worked out coincidently with the zoning plan and park system for the entire city, and problems of transportation by motor, rail, and water should be treated as parts of a larger whole. The housing problem cannot be divorced from the street plan and the location of industries. Any one of these problems may be set apart for purposes of study and discussion, but it cannot be solved without a consideration of all the related factors.

The motto, "One thing at a time and that done well," is good in city planning only when applied to the successive steps in an orderly program of general development.

BASIC LEGISLATION

Before a city can spend public funds, however small, to prepare a city plan and before this plan can become binding, as a guide for future growth, the city must have the proper legislative authority. This may be already contained in the state constitution or in the city charter, or it may have to be specifically

secured by the city from the state. In some cases a city commission or city council may create a city planning board under the city's general powers. However, since city planning includes zoning, and since recent experience has shown that zoning may best be done under a specific enabling act (see " A Standard State Zoning Enabling Act," issued by the Department of Commerce), it is safest to begin on very firm ground, with the backing of specially granted authority.

Cities may find a collection and explanation of American legislation fundamental to city planning in the authoritative book by Mr. Frank B. Williams entitled, "The Law of City Planning and Zoning." This book will help those initiating city planning work to check up what powers a city now enjoys and what powers it must secure. A paper plan is of little use unless its provisions can be carried out.

THE CITY PLANNING COMMISSION

In the earlier days of city planning in the United States, many of the plans were prepared by unofficial committees. It is now recognized that city planning is a necessary part of municipal administration and that the first step towards a plan is to create an official city planning body, frequently called the city planning commission. This commission usually has from five to fifteen members and is composed of representative citizens, serving without pay, together with (*ex-officio*) certain city officials most concerned in carrying out the plan, commonly the city engineer and the head of the park department, and sometimes the mayor and city attorney. The citizen members should be selected to form an efficient working body and should have overlapping terms of office. Frequently a small executive commission with a much larger Advisory Council or Citizens' Committee has been found desirable, the small commission concentrating on the development of the plan and the large committee promoting a general knowledge of it and securing public support.

Except in very small towns, the executive secretary of the city planning commission would better be a paid official giving his whole time to the work and especially trained for it.

EXPERT ADVICE

A city needs expert advice in the development of its plan just as a sick man needs a doctor's skill or an accused man the services of a lawyer. The problems of a city are so complicated that a local city planning commission (if it does not contain experts among its members) can hardly be expected to arrive at comprehensive solutions unless it employs outside assistance. The employment of experts familiar with the experience of other cities in solving similar problems is now customary practice. If the city or town is small, one man skilled in city planning is usually employed. If the city be large and the problem such as to require diverse knowledge, a group or committee of experts is secured. This latter method was used by the government of the United States during the Great

War when new towns were laid out by the United States Housing Corporation to house the employees in war industries.

In choosing expert advisers a city planning commission should consider their technical training and experience, their breadth of view, and the practical results of their work in other cities.

THE SURVEY AND THE PLAN

A good doctor gives his patient a thorough physical examination before he proceeds to a diagnosis. The first step in city planning is likewise an examination of the physical city as it exists in itself and as it is related to the surrounding region. Such a civic survey comprises many branches, each of which is important to the interpretation of the others. Survey studies usually include the preparation of a topographic map, — if the city does not already have one, — maps showing distribution of population, use of land, land values, housing conditions, street traffic, transportation, and terminals, and public recreation areas. Aerial surveys are now considered essential to study of the broad relations of city and region. In addition to the physical survey, studies of social and economic conditions and of legal and administrative powers are carried on.

In the analysis and interpretation of the facts gathered in these surveys, — which may be the coöperative work of several local officials and agencies, — expert advice becomes especially desirable. Under such guidance, these facts should be translated while fresh and vital into the structure of the city plan. The plan, as first created, will be like a view of the city seen from an airplane high above it. Only the main outlines will be laid down, leaving details to be gradually worked out.

A CONSTRUCTIVE PROGRAM

The city planning commission having been appointed and having begun its work, with the aid of competent technical advice, the next step is to inform the public thoroughly concerning the value of city planning and what it can do for the city. Frequently, as has already been suggested, this educational campaign is carried on by a large advisory committee of citizens or a city planning association. The interest of every voter in the community should be aroused so that all will understand and be favorable to city planning, and, when the time comes, vote for and not against the financing of the plans proposed. Suggestions for conducting educational campaigns for city planning may be obtained from the Secretary of the National Conference on City Planning. (See also p. 33.)

When the city planning commission and its advisers are ready with the outline of the city plan, or with some important part which seems to demand early attention, this should be published in such form that it may be widely distributed to citizens and readily comprehended by them. A concise summary of

the plan and well selected illustrations help the reader who will not attempt to encompass the full text.

An essential part of a city plan is a "progress program" covering perhaps a period of thirty years and showing the order in which the various projects proposed by the plan should be taken up, and the possible methods of financing these. This program will show priority projects on which public attention may first be concentrated. Unless some such program is attached to the plan, it would not be surprising if many citizens were frightened by the magnitude of a long look into the future. It is here that the "One thing at a time and that done well" helps the accomplishment of the other things that must come after.

Constant alertness on the part of the city planning commission will be necessary to guide the construction of the plan, coöperating with the various municipal departments charged with this, and providing for changes of detail to meet new conditions as they arise. The work of the city planning commission is only begun when the plan is published. The commission must continue the education of the public, continue the defense of the plan against the encroachment of selfish interests, and be constantly watchful of opportunities to enlist coöperation of the public transportation companies and of surrounding municipalities in the development of the city.

FINANCING THE INVESTMENT

The public improvements proposed by the city plan must be paid for. Since many of these improvements will be enjoyed more by the future than the present generation, it is felt that future citizens should share in the payment. Certain classes of improvements may with equity be paid from bond issues if the life of the improvement is long enough so that the benefit will be reaped in the future. There is a general feeling, however, among those whose opinion is valuable in this matter, that many of the improvements, especially those correcting mistakes of the past, are such as can be equitably assessed, at least in part on the areas benefited. The book by Mr. Nelson P. Lewis, "The Planning of the Modern City," discusses this subject in detail.

Another method, excess condemnation, employed more abroad than in the United States is beginning to be used here, particularly in street improvements.

A striking instance of financing important public improvements may be cited from Kansas City, Mo., in the construction of its parks and parkways:

> Instead of incurring a debt and leaving the bill to be paid by posterity, the people of the city have felt so sure of their immediate value to the community as a whole that they have assessed themselves for the entire cost in order to pay cash.

It will be a part of the duty of the city planning commission, with the advice of other city officials and of its experts, to decide what program of financing will best be adapted to the city and its needs.

PRESENT ADVANTAGES AND FUTURE RETURNS

The advantages of zoning are immediate. It is hard to name a municipal investment, which, in return for the relatively small amount of money required to do it well, shows such beneficial results in stabilized property values, increased home ownership, rehabilitation of blighted districts, and attraction of industry.

The returns for other phases of city planning which take longer to materialize may be less immediate but are none the less substantial in terms of both comfort and prosperity. Mr. Nelson P. Lewis quotes Mr. John Burns, the father of British town planning legislation, as saying that:

> Investment in a good plan, whether it be for new parts of a city or for the correction of older parts, if regarded for a period of a year, may appear expensive; if considered for a period of five years it will be profitable; when considered for a period of fifty years it will be an investment which in subsequent days will make the community regret that it did not adopt it sooner.

Mr. Lewis continues:

> Mr. Burns further notes that the neglected hamlets of a hundred years ago are the squalid industrial towns and cities of to-day, and he pleads that we should so arrange the physical life of a hamlet, village, town or city that it can grow naturally and at each stage avoid the cost, nuisance, ugliness, and squalor which one sees wherever a town encroaches on the country. . . .
>
> Instances may be cited where towns have grown very rapidly and have developed into great commercial or industrial cities, although their plans violate almost every principle laid down by city planning authorities. Their growth, however, has been due to certain natural advantages and to the general development and prosperity of the districts tributary to them, and they have grown in spite of the handicap of a poor plan. When its defects and the embarrassment to business due to them become apparent vast sums are often spent to cure the defects which might have been discovered and avoided had sufficient study been given to the plan when it was first under consideration, and the increased cost of doing business for a period of years and the large sums spent in the correction of the plan might have been saved. The cost of reconstruction has run far into the millions in nearly every large city except Washington, which was so planned as to provide for future growth. To give figures for different towns is unnecessary, but the total would be staggering. The beneficial results of such changes as have been made will be evident upon a comparison of the taxable values in their vicinity before and after the improvements have been carried out.

WHY DELAY?

Cities seldom stop growing. If they continue to grow without a plan, their inconveniences and ills are continually aggravated. The sick man is getting sicker, and every day it becomes more difficult and more expensive to cure him. Public health is damaged by bad housing and lack of playgrounds, public wealth is wasted by building wreckage and costly haulage, and public happiness is clouded by poverty and ugliness.

The advertising slogan, "Eventually, why not now?"—has become a national byword. It applies in city planning, along with, "A stitch in time saves nine," and, "It is never too late to mend." *Today is the time to begin.*

CITIES WITH PLANS ADOPTED OR IN PROGRESS

In the invitations to the National Conference on City Planning in June, 1922, the Secretary of the Conference reported that "every city of the Metropolitan class in the United States with a population of over 300,000 has adopted city planning as a part of its official program." During 1922, news of city planning in various stages was received at the Library of the Harvard School of Landscape Architecture from nearly one hundred and fifty cities and towns. Of these, at least twenty-five reached the point in 1922 of issuing published plan reports. Of the forty-three cities in the United States with a population of one hundred and fifty thousand or over, city planning news was received during 1922 from all but three; and of these three only one has not had some form of city plan report in the past. The competitive instinct for securing municipal advantages seems to be thoroughly aroused in many quarters and before long it will be easier to make a list of the principal cities which are laggards in city planning than to review the accomplishment of those which are active.

The statistics to date are not available as to city planning legislation in all states of the Union, but this information is now being assembled at the office of the Division of Building and Housing of the Department of Commerce. In Massachusetts, where there is a compulsory city planning law, fifty-three planning boards are already in operation. The Secretary of the Massachusetts State Division of Housing and Town Planning has compiled information showing that twenty states have state-wide laws authorizing cities to appoint planning commissions, although only three states have state departments or divisions.[1]

The statistics for zoning legislation have been compiled at the Department of Commerce to January, 1923. Twenty-five states and the District of Columbia have enabling legislation, and in the entire country one hundred and nine cities, towns, and villages were zoned up to January 1, 1923 as compared with fifty-five just one year before. More than fifteen million people live in the zoned cities, towns, and villages, or twenty-seven per cent of the total urban population of the country.

The National Conference on City Planning issued in 1922, with a supplement in 1923, a list of cities which have shown an interest in city planning either by making city planning studies or by the appointment of city planning boards, including zoning boards, which comprises over three hundred cities distributed among thirty-eight states and the District of Columbia.

[1] This became four in May, 1923, by the addition of New York, to Massachusetts, Pennsylvania, and California.

Of the larger cities, there might be especially mentioned for their city planning work: New York, Chicago, Boston, Washington, Baltimore, Philadelphia, Cleveland, Pittsburgh, Buffalo, Detroit, Minneapolis, St. Paul, Milwaukee, Kansas City (Mo.), and St. Louis. The Chicago Plan is historic and has been the inspiration of much other planning work. The most recent undertaking, and the most extensive, is the Plan of New York and its Environs under the auspices of the Russell Sage Foundation. This is a great regional plan to be offered to the local authorities of the Metropolitan area as a guide to future development. This project will also be a demonstration of city planning technique which will undoubtedly benefit city planning work throughout the country.

SOURCES OF INFORMATION

The National Conference on City Planning (with its Secretary's office at 130 East 22d Street, New York) is a national association solely devoted to the promotion of city planning. Within this organization and with the same officers is the American City Planning Institute, composed of those engaged in technical city planning work. The National Conference and the Institute have published many valuable papers on city planning and the Secretary is in constant touch with city planning projects throughout the country (see p. 13).

The Division of Building and Housing of the Department of Commerce has collected and issued extensive and up-to-date information on zoning, and is now undertaking the same service in regard to city planning. Inquiries for information should be addressed to the Division of Building and Housing, Department of Commerce, Washington, D.C. (see p. 15).

The Library of the School of Landscape Architecture at Harvard University — with its extensive collections on city planning — is recognized as a national center of information and has coöperated with the Department of Commerce in the formation of the latter's files. The Librarian of the Harvard School furnishes annually for publication a review of city planning progress, the series now covering from 1910 to date; and several long and short bibliographies on city planning have been issued. The resources of the Library have been freely used in the preparation of the present *Manual*, and much information thus made more generally available.

T. K.

Cambridge, Massachusetts
April, 1923

TEN REFERENCES FOR THE SHELF OF A CITY PLANNING COMMISSION

ADAMS, THOMAS. Modern city planning, its meaning and methods. Special number of *National Municipal Review*, June 1922, v. 11, pp. 157–177. plans. (Technical Pamphlet Series.)

BASSETT, EDWARD M. Zoning. [26 pages.] (National Municipal League, Technical Pamphlet Series No. 5, 1922.)

BIRD, CHARLES S., JR., *Editor*. Town planning for small communities, by Walpole (Mass.) Town Planning Committee. New York, D. Appleton & Co., 1917. 492 pages. illus., plans. (National Municipal League Series.)

KIMBALL, THEODORA, *Editor*. Municipal accomplishment in city planning and published city plan reports in the United States. From information assembled largely by the Detroit City Plan Commission. Published under the auspices of National Conference on City Planning, Boston, 1920. 79 pages.

LEWIS, NELSON P. The planning of the modern city, a review of the principles governing city planning. With the assistance of Harold M. Lewis. 2d edition, revised. New York, John Wiley & Sons, 1923. 457 pages. illus., photos, plans, diagrams.

NATIONAL CONFERENCE ON CITY PLANNING. Proceedings, published by the Conference, 1910 to date. (A valuable file of general and technical papers.)

NOLEN, JOHN, *Editor*. City planning; a series of papers (by seventeen specialists) presenting the essential elements of a city plan. New York, D. Appleton & Co., 1916. 447 pages. illus., plans. (National Municipal League Series.)

PRAY, JAMES STURGIS, AND THEODORA KIMBALL. City planning, a comprehensive analysis. Cambridge, Harvard University Press, 1913. 103 p. (This outline, revised to date, has been used for the arrangement of the bibliography in this present *Manual*.)

ROBINSON, CHARLES MULFORD. City planning, with special reference to the planning of streets and lots. New York, G. P. Putnam's Sons, 1916. 344 pages. illus., plans. (Of especial importance in relation to the platting of residential districts.)

WILLIAMS, FRANK BACKUS. The law of city planning and zoning. New York, The Macmillan Co., 1922. 738 pages. tables. (The Citizen's Library of Economics, Politics and Sociology — New Series.)

THE NATIONAL CONFERENCE ON CITY PLANNING

The National Conference on City Planning dates from 1909, which was a significant year in city planning in the United States. In that year the Burnham Plan for Chicago was finished, and the Committee on Congestion of Population in New York City called a conference in Washington to discuss problems of congestion of population. The Washington conference was for a part of its deliberations a hearing before a congressional committee and the proceedings were published as a congressional document. That conference adopted a resolution calling for the appointment of an executive committee to prepare a conference on city planning for 1910.

Frederick L. Ford, the city engineer of Hartford, was elected chairman of the executive committee and Flavel Shurtleff, a Boston lawyer, was appointed secretary, in connection with investigating and reporting upon the law and practice involved in carrying out city plans. This report was financed by the Russell Sage Foundation of New York City.

For several years the Conference on City Planning was continued only by a yearly resolution calling for a conference in the succeeding year, but in 1919 a constitution was adopted which stated the purpose of the organization: "to promote the cause of city, town and regional planning."

Several of the yearly meetings have been noteworthy milestones in the progress of the city planning movement in the United States. At the Philadelphia conference of 1911 was assembled the first comprehensive city planning exhibit in the United States and in this same year Pennsylvania passed permissive legislation looking to the creation of planning commissions in cities of the second class.

In 1912 the conference met in Boston and in the next year the legislature of Massachusetts passed an act making planning boards mandatory in every city of the state with a population of 10,000 and over.

The conference of 1914, entertained in Toronto by the Dominion Conservation Commission, was the first planning conference held in Canada and one of its chief results was the retaining of Thomas Adams, the well-known town planner of Great Britain, as the consultant on city planning to the Conservation Commission of Canada. Here were presented various arguments for zoning in America, and two years later New York City adopted the first zoning ordinance under which Greater New York was zoned for industry, for business and for residence.

The Cleveland conference of 1916 was soon followed by state-wide authorization of city planning commissions.

The conference of 1919 in Niagara Falls and Buffalo stimulated interest in the Buffalo region as a planning unit, and the Buffalo City Planning Association, organized in the next year, included in its program a plan for the entire region for

which Buffalo was the business center. This was the first conscious effort at a regional plan in the United States. At this conference also was organized the American City Planning Institute, a technical group composed of members of the National Conference on City Planning, who as engineers, landscape architects, architects, lawyers, or as specialists in other fields, have been for at least two years in responsible charge of some major phase of city planning.

In the fifteen years of the Conference history, city planning and zoning legislation has been passed by the legislatures of 22 states, 185 cities have appointed plan commissions, 125 cities and towns have passed zoning ordinances, and 90 cities and towns have secured plans for their future development.

FLAVEL SHURTLEFF, *Secretary*

130 EAST 22d STREET, NEW YORK
April 28, 1923

SERVICES PERFORMED BY THE DIVISION OF BUILDING AND HOUSING, DEPARTMENT OF COMMERCE, WASHINGTON

A GROWING demand for the Federal Government to take an active interest in building and housing prompted the Congress of the United States to authorize such work in the Department of Commerce beginning with the fiscal year 1921–1922. The Act appropriating the funds says among other things, "That as much of this sum as necessary shall be used to collect and disseminate such scientific, practical, and statistical information as may be procured, showing or tending to show approved methods in building, planning, and construction, standardization, and adaptability of structural units, including building materials, and codes, economy in the manufacture and utilization of building materials and supplies, and such other matters as may tend to encourage, improve, and cheapen construction and housing." Accordingly, Secretary Hoover set up the Division of Building and Housing.

The activities of this Division have developed along four main lines: statistics and economics; elimination of waste; technical service for municipalities; and information service for home owners.

Statistics on current prices of building materials in cities of the United States are collected and made public, as are figures on building activity, production, consumption and stocks of certain building material items, and tables and charts showing wholesale price indices, tenancy, home ownership and similar data.

The Division is coöperating with civic groups, individuals, members of the construction industry, architects, engineers, material producers and dealers, real estate men, contractors and others, in efforts to provide better houses at lower cost and to eliminate wastes that have burdened building and housing in the past. Small house plans designed to utilize standard sizes of materials, and to meet regional needs in various parts of the country are distributed at small cost by the Architects' Small House Service Bureau, endorsed by Mr. Hoover and the Department. A booklet, "How to Own Your Home," has been prepared by the Division for the aid of prospective home owners, and includes sections on financing a home, choosing the site, building a house, and other related subjects.

Technical services for municipalities were undertaken in order to provide where possible a sound basis for greater uniformity in construction regulation. Unwarranted and obsolete restrictions have placed a burden upon building in many communities, and retarded the progress of proper housing and construction. A Building Code Committee of prominent engineers and architects has issued a report on "Recommended Minimum Requirements for Small Dwelling Construction," and a Sub-Committee on Plumbing is working on the essentials

of plumbing code regulations. An Advisory Committee on Zoning makes available, to municipalities and states desiring it, information on zoning matters.

Zoning and city planning are being more and more widely resorted to as remedies for the wastes resulting from undirected city growth and misplaced construction, and in answer to requests from many sources Mr. Hoover appointed the Advisory Committee on Zoning, which is composed of men familiar to those interested in housing and planning problems:

Mr. EDWARD M. BASSETT,
Counsel, Zoning Committee of New York.
Mr. IRVING B. HIETT,
Past President, National Association of Real Estate Boards.
Mr. JOHN IHLDER,
Manager, Civic Development Department, Chamber of Commerce of the United States.
Mr. MORRIS KNOWLES,
Of the Chamber of Commerce of the United States, and Chairman of the Zoning Committee of Pittsburgh.
Mr. NELSON P. LEWIS,
Past President of the American City Planning Institute, and in charge of the Physical Surveys for the Plan of New York and its Environs.
Mr. J. HORACE MCFARLAND,
President of the American Civic Association.
Mr. FREDERICK LAW OLMSTED,
Past President of the American Society of Landscape Architects, and Past President of the American City Planning Institute.
Mr. LAWRENCE VEILLER,
Secretary and Director of the National Housing Association.

These men prepared "A Zoning Primer," an elementary statement of zoning principles, and "A Standard State Zoning Enabling Act," with full notes for the benefit of states authorizing city zoning. A number of states already have used this Standard Act as the model for their zoning legislation. There has been issued also by the Division of Building and Housing a Selected Bibliography of Zoning, prepared by Miss Theodora Kimball for the Committee, and a statement "Zoning Progress in the United States," which comprises a list of state zoning laws and municipal ordinances.

The Division of Building and Housing endeavors to render a real service to the public at large through its efforts to better construction and to improve housing conditions in the United States.

JOHN M. GRIES
Chief of the Division of Building and Housing

May, 1923

NATIONAL ORGANIZATIONS ACTIVE IN PROMOTING CITY PLANNING

National Conference on City Planning and American City Planning Institute, 130 East 22d Street, New York City. Flavel Shurtleff, Secretary.

United States Department of Commerce, Washington, D. C. John M. Gries, Chief, Division of Building and Housing.

American Civic Association, Union Trust Building, Washington, D. C. Miss Harlean James, Secretary.

American Federation of Arts, 1741 New York Avenue, Washington, D. C. Miss Leila Mechlin, Secretary.

American Institute of Architects, The Octagon, Washington, D. C. Committee on Community Planning. Clarence S. Stein, Chairman.

American Institute of Park Executives[1] and American Park Society, Minot, N. D. Will O. Doolittle, Secretary.

American Society for Municipal Improvements,[2] P. O. Box 234, St. Petersburg, Fla. Charles Carroll Brown, Secretary.

American Society of Civil Engineers, 33 West 39th Street, New York City. John H. Dunlap, Secretary.

American Society of Landscape Architects, 18 Tremont Street, Boston, Mass. Bremer W. Pond, Secretary.

Chamber of Commerce of the United States, Mills Building, Washington, D. C. John Ihlder, Manager, Civic Development Department.

National Association of Real Estate Boards, 18 Consumers Building, Chicago, Ill. Herbert U. Nelson, Executive Secretary. Emerson W. Chaillé, Chairman City Planning Committee, 308 N. Meridian Street, Indianapolis.

National Automobile Chamber of Commerce, 366 Madison Avenue, New York City. John C. Long, Secretary, Educational Department.

National Housing Association, 105 East 22d Street, New York City. Lawrence Veiller, Secretary and Director.

National Municipal League, 261 Broadway, New York City. H. S. Dodds, Secretary.

Playground and Recreation Association of America, 315 Fourth Avenue, New York. George D. Butler, Correspondence and Consultation Bureau.

Russell Sage Foundation, 130 East 22d Street, New York City. Department of Surveys and Exhibits; Department of Recreation; etc.

Zoning Committee of New York, 233 Broadway, New York City. Edward M. Bassett, Counsel.

[1] Name changed in 1921 from American Association of Park Superintendents.

[2] Name changed in 1918 from American Society of Municipal Improvements.

STATE ORGANIZATIONS TO PROMOTE CITY PLANNING

MASSACHUSETTS

At the third annual conference of Massachusetts City and Town Planning Boards in 1915, the Massachusetts Federation of Planning Boards (Arthur C. Comey, Secretary, Cambridge, Mass.) was formed under the auspices of the Massachusetts Homestead Commission. It has held annual meetings and published a series of useful bulletins. It has coöperated with the Division of Housing and Town Planning of the State Department of Public Welfare, which superseded the Homestead Commission in 1920, and has been largely instrumental in securing legislative appropriation for the appointment of a field worker for the Division in 1923. The proceedings of the Federation Conferences appear in the Division's annual reports.

CALIFORNIA

The California Conference on City Planning held its first meeting in October, 1914, as an auxiliary body to the League of California Municipalities. It published several bulletins in 1915, and has promoted city planning and zoning in the state. A meeting was held in March 1923 in connection with pending legislation. The temporary headquarters of the Conference are with the City Planning Commission of Los Angeles, G. Gordon Whitnall, Director. The California Commission of Immigration and Housing is the official state agency authorized to promote city planning work.

PENNSYLVANIA

The Division of City Planning and Municipal Engineering (B. A. Haldeman, Chief) in the Pennsylvania State Bureau of Municipalities at Harrisburg (established in 1919) is the active center for promoting city planning in the state.

There are two unofficial organizations. The Pennsylvania Housing and Town Planning Association organized several years ago has not been very active. The former Pennsylvania State Association of City Planning Commissioners is in process of reorganization (1923). The State Bureau issued a bulletin in June, 1923, for the Association of City Planning Commissions of Cities of the Third Class (Leo F. Buettner, Secretary, Johnstown, Pa.) describing progress in those cities.

OHIO

The Ohio State Conference on City Planning (Miss Charlotte Rumbold, Secretary, Chamber of Commerce, Cleveland) was inaugurated in 1919 at the invitation of the Cleveland Chamber of Commerce. It has held annual conferences and conducted active and successful campaigns for the passage of state enabling legislation for city planning. Its latest achievements (1923) in securing authority

for the appointment of regional planning commissions and for the establishment of city maps are especially notable. Its bulletins have been issued in mimeographed form, and extensive educational work through the newspapers has been carried on.

IOWA

At the first annual conference on town planning in Iowa held in Des Moines in March 1920, the Iowa Town Planning Association was organized (Rolland S. Wallis, Secretary, Ames, Iowa). The Association has been very active in promoting city planning and zoning throughout the state. It has held successful meetings and published an excellent monthly mimeographed bulletin "Civic Improvement Items" beginning in January 1922. It led the campaign for a state zoning enabling act, based on the Department of Commerce Standard Act, signed by the Governor on April 24, 1923.

INDIANA

The first Indiana State Conference on City Planning (John B. Reynolds, Secretary, Chamber of Commerce, Indianapolis) was held at Purdue University in February 1923. At this meeting the progress since the passage of the state enabling laws for city planning and zoning in 1921 was reviewed. Professor Lommel of the Purdue Engineering School has summarized this in a mimeographed paper no. 2 of the Engineering Extension Service, called "Status of City Planning in Indiana."

NEW YORK

A Bureau of Housing and Regional Planning has just been established (1923) in the New York State Department of Architecture. The bureau is to be composed of the state architect, the state commissioner of highways and the industrial commissioner, with five lay members to be appointed by the state architect.

The New York State Conference of Mayors and other City Officials (W. P. Capes, Secretary) has included city planning in its programs.

A LIST OF AMERICAN PERIODICALS DEVOTING SPACE TO CITY PLANNING AND ZONING

THE following periodicals, published in the United States, carry articles or items on city planning and zoning with sufficient frequency to make it worth while for the specialist to keep in touch with their columns. Those which have been marked with a star should be taken regularly by libraries attempting to follow city planning progress; and those marked with a double star may be considered especially useful.

The back files from their beginnings of *American City* (from 1909), *Landscape Architecture* (from 1910), *Housing Betterment* and *National Municipal Review* (from 1912), and of the *Engineering News-Record* from about the same period are very valuable for articles or news items.

References will be found in the Bibliography in this *Manual* to two civic periodicals no longer published: *Municipal Affairs*, a quarterly, published in New York by the Reform Club from 1897 to 1902; and *Civic Comment*, issued occasionally by the American Civic Association from 1919 to 1921. Except for the few references to *Municipal Affairs* and to the general magazines such as *Century* and *Scribner's*, the periodical references in the Bibliography are to fairly recent files of periodicals still continuing publication, mainly to some of those contained in the following list. In cases where no reference to articles in a magazine on the list have been given this may be taken to indicate either that the same subject has been covered more fully elsewhere or that the magazine contains mainly short news items in this field.

A valuable weekly index of civic publications may be found in the New York Municipal Reference Library *Notes*. The *Public Affairs Information Service*, *Industrial Arts Index*, and *Reader's Guide to Periodical Literature* furnish additional references to magazine articles, but it is hardly necessary for anyone except a bibliographer to follow regularly these more general periodical indices.

In several cities the municipal authorities or chambers of commerce publish local organs which feature city planning and zoning items. Typical of these are the Baltimore *Municipal Journal*, Denver *Municipal Facts*, Boston Chamber of Commerce *Current Affairs*, and *Greater New York*, organ of the Merchants' Association. The Port of New York Authority plans are featured in The *Port of New York*. The Citizens City Plan Committee of Pittsburgh has published a regular monthly, *Progress*, devoted to the Plan, since January 1921, and at various times other planning associations have issued little magazines to promote popular interest in the subject.

LIST

AERA (monthly). American Electric Railway Association, 8 West 40th Street, New York City. Harlow C. Clark, ed.

AMERICAN ARCHITECT (and ARCHITECTURAL REVIEW) (bi-weekly). Architectural and Building Press, Inc., 243 West 39th Street, New York City. W. A. Crocker, ed.

AMERICAN BUILDER (monthly). American Carpenter and Builder Co., 1827 Prairie Avenue, Chicago, Ill. W. A. Radford, ed.

**AMERICAN CITY (monthly). Civic Press, 443 Fourth Avenue, New York City. Harold S. Buttenheim, ed.

AMERICAN CONTRACTOR (weekly). American Contractor Publishing Co., 131 North Franklin Street, Chicago. Edward J. Brunner, ed.

AMERICAN ECONOMIC REVIEW (4 times a year). American Economic Association, New Haven, Conn. Davis R. Dewey, man. ed., Cambridge, Mass.

**AMERICAN INSTITUTE OF ARCHITECTS, JOURNAL OF THE (monthly). Press of the American Institute of Architects. C. H. Whitaker, ed., 250 West 57th Street, New York City.

AMERICAN JOURNAL OF PUBLIC HEALTH (monthly). American Public Health Association, 169 Massachusetts Avenue, Boston, Mass. A. W. Hedrick, ed.

AMERICAN JOURNAL OF SOCIOLOGY (bi-monthly). University of Chicago Press, Chicago, Ill. A. W. Small, ed.

AMERICAN MAGAZINE OF ART (monthly). American Federation of Arts, 1741 New York Avenue, Washington, D. C. Miss Leila Mechlin, ed.

AMERICAN MUNICIPALITIES, Iowa (monthly). Municipal Publishing Co., Marshalltown, Iowa. Frank G. Pierce, ed.

*AMERICAN SOCIETY OF CIVIL ENGINEERS PROCEEDINGS (monthly, except June and July). 33 West 39th Street, New York City.

*ARCHITECT AND ENGINEER, of California (monthly). Architect and Engineer, Inc., 626–629 Foxcroft Building, San Francisco, Calif. Frederick W. Jones, ed.

ARCHITECTURAL RECORD (monthly). Architectural Record Co., 115–119 West 40th Street, New York City. Michael A. Mikkelsen, ed. (Absorbed PARK INTERNATIONAL.)

ARCHITECTURE AND BUILDING (monthly). Wm. A. Comstock Co., 23 Warren Street, New York City. Wm. A. Comstock, man. ed.

BUILDING AGE (monthly). Building Age Publishing Corporation, 239 West 39th Street, New York City. Charles G. Peker, ed.

CANADIAN ENGINEER (weekly). Monetary Times Printing Co. of Canada, Ltd., 62 Church Street, Toronto, Canada.

*ENGINEERING AND CONTRACTING (weekly). Engineering and Contracting Publishing Co., 9 So. Clinton Street, Chicago, Ill. H. P. Gillette, ed.

**ENGINEERING NEWS–RECORD (weekly). McGraw-Hill Co., Inc., 10th Avenue at 36th Street, New York City. E. J. Mehren, ed.

GOOD ROADS (weekly). E. L. Powers Co., 461 Eighth Avenue, New York City. E. L. Powers, ed.

**HOUSING BETTERMENT (quarterly). National Housing Association, 105 West 22d Street, New York City. Lawrence Veiller, ed.

KANSAS MUNICIPALITIES (monthly). League of Kansas Municipalities, Lawrence, Kansas. Albert A. Long, ed.

**LANDSCAPE ARCHITECTURE (quarterly). Landscape Architecture Publishing Co., Cambridge 38, Mass. Henry V. Hubbard, ed.

MODERN CITY (monthly). Modern City Publishing Co., Franklin Building, Baltimore, Md. Robert E. Lee, ed.

MUNICIPAL AND COUNTY ENGINEERING (monthly). Engineering Publishing Co., 702 Wulsin Building, Indianapolis, Ind. Samuel C. Haddan, ed.

NATION'S BUSINESS (monthly). Chamber of Commerce of U. S., Mills Building, Washington, D. C. Merle Thorpe, ed.

NATIONAL BUILDER (monthly). Tradepress Publishing Corporation, 542 So. Dearborn Street, Chicago, Ill., A. H. McQuilkin, ed.

**NATIONAL MUNICIPAL REVIEW (monthly). National Municipal League, 261 Broadway, New York City. Harold W. Dodds, ed.

**NATIONAL REAL ESTATE JOURNAL (bi-weekly). Porter-Bede-Langtry Corporation, 139 No. Clark Street, Chicago, Ill. George E. Henry, ed.

PACIFIC MUNICIPALITIES (monthly). H. A. Mason & W. J. Locke, eds. and pubs. Pacific Building, San Francisco, Calif.

*PARKS AND RECREATION (bi-monthly). American Institute of Park Executives and American Park Society, Minot, N. D. Will O. Doolittle, ed.

PLAYGROUND (monthly). Playground and Recreation Association of America, 315 Fourth Avenue, New York City.

PUBLIC WORKS (and MUNICIPAL JOURNAL) (weekly). Public Works Journal Corporation, 243 West 39th Street, New York City. A. Prescott Folwell, ed.

REAL ESTATE RECORD AND BUILDER'S GUIDE (weekly). Record and Guide Co., 119 West 40th Street, New York City. Frank E. Perley, ed.

*SURVEY (weekly). Survey Associates, Inc., 112 East 19th Street, New York City. Paul U. Kellogg, ed.

TEXAS MUNICIPALITIES (bi-monthly). League of Texas Municipalities, Austin, Texas.

**TOWN PLANNING INSTITUTE OF CANADA, JOURNAL OF THE (bi-monthly). The Institute, Ottawa, Canada. Alfred Buckley, ed.

L'UNION INTERNATIONALE DES VILLES

AND THE

AMERICAN CENTRE OF CIVIC DOCUMENTATION

THE purpose of this important international organization is to collect civic information of all sorts from all over the world, study it and publish, at least quarterly, Note-Books containing brief items of current civic data classified under many convenient headings. The headquarters is in Brussels but well developed "Centres" are now functioning in Paris for France, Brussels for Belgium, Rome for Italy, Düsseldorf for Germany, while in many other countries steps are being taken towards initiating such "Centres."

While in Europe cities support their various National "Centres" by joining officially paying a fee depending upon population, this did not seem to be a feasible arrangement for America.

The work of organizing an American Centre has been taken up by a committee of the American Society of Landscape Architects. This Committee made a thorough investigation and was able to avail itself of the services of Miss Theodora Kimball, the Librarian of the School of Landscape Architecture at Harvard University. The Committee finds that such a Centre of Civic Documentation could far better be arranged in Washington than elsewhere; — that it could best be organized in the Division of Building and Housing of the Department of Commerce, and furthermore that all the material needed for the establishment of such a centre is readily available in Washington, either at the Library of Congress or in other Governmental Departments; that it will therefore be unnecessary to spend any money on this account.

The Committee found, however, that while Secretary Hoover and his Department are much interested, no funds are available for financing the matter. But the Committee believes that an organization which, — as Senator Vinck the Director of the Brussels office has recently said, — is "a tool of such enormous efficiency," stimulating, as it will, better civic conditions by the distribution of authentic, up-to-date, civic information, must not be permitted to fail; and the Committee has under consideration several very promising methods of securing funds for this purpose.

Special Committee of the American Society of Landscape Architects to cooperate with the International Union of Cities and Its Centres of Civic Documentation:

STEPHEN CHILD, Chairman,
JAMES STURGIS PRAY, Harvard University,
FREDERICK LAW OLMSTED.

RECORDS OF CITY PLANNING PROGRESS IN THE UNITED STATES

In December 1914, the *American City* published a list of American city planning reports covering from 1900 to that date, compiled by the late Charles Mulford Robinson, Mr. Frederick Law Olmsted, and Miss Theodora Kimball.

In 1917 the Town Planning Committee of the American Institute of Architects published the first comprehensive review of city planning progress in the United States, edited by Mr. George B. Ford. This work is now out of print, and no later edition of it has been issued.

In 1920 the Detroit City Plan Commission assembled information from the principal cities of the country as to execution of city planning projects and educational campaigns. This information was turned over to the National Conference on City Planning, and, under its auspices, supplemented and edited for publication by Miss Theodora Kimball. To a digest of the replies from various cities was added a list of city plan reports published in the United States subsequent to 1900. The pamphlet was called "Municipal Accomplishment in City Planning" and may still be obtained from the Secretary of the National Conference. Its list of reports superseded the list published by the *American City* in 1914. The progress recorded in this pamphlet attracted considerable attention in the periodical press, including summaries in the *Engineering News-Record* and *American Review of Reviews.*

Two periodicals have each published a series of annual reviews of city planning progress, — The *National Municipal Review* and *Landscape Architecture.* The series in the former was inaugurated by Charles Mulford Robinson in January 1913, and continued to his death in 1917, after which the reviews were carried on by Miss Kimball. Beginning in 1922 they constitute a briefer summary of progress than the Survey in *Landscape Architecture.* The references for the series are given below.

The reviews in *Landscape Architecture,* also written by Miss Kimball, began in April 1912, covering city plan reports from 1910. At first the annual article was confined strictly to published reports, but the scope has been enlarged, and it now appears in the form of a survey of progress, accompanied by a list of the reports of the year.

The *American City* has just undertaken (beginning June 1923) to cover systematically progress in the legal side of city planning in a department conducted by Frank B. Williams, Esq.

The National Conference on City Planning in its Proceedings has published brief reports from cities where plans are in preparation or under way, and papers on the plans of cities where the annual conferences have been held will be found

in the Proceedings for that year. In the 1922 Proceedings the Conference published a "list of cities which have shown an interest in city planning either by making city planning studies or by the appointment of city planning boards, including zoning boards." This list revised to April 1923, was issued as a bulletin of the Conference.

References

Municipal Accomplishment in City Planning and Published City Plan Reports in the United States, edited by T. Kimball from information assembled largely by the Detroit City Plan Commission. Published under the auspices of the National Conference on City Planning, 1920. 79 pages.

Landscape Architecture

Surveys by T. Kimball:

April, 1912; vol. 2, p. 111–126.
April, 1913; vol. 3, p. 119–134.
January, 1915; vol. 5, p. 75–104.
January, 1918; vol. 8, p. 87–100. (Covering three years.)
January, 1920; vol. 10, p. 80– 87. (Covering two years.)
January, 1921; vol. 11, p. 90– 95.
January, 1922; vol. 12, p. 112–116.
January, 1923; vol. 13, p. 122–139. *Reprinted.*

National Municipal Review

Reviews by C. M. Robinson:

January, 1913; vol. 2, p. 160–166.
July, 1914; vol. 3, p. 538–547.
July 1915; vol. 4, p. 383–397.
July and October, 1916; vol. 5, p. 388–394 and 638–642.
September, 1917; vol. 6, p. 598–604.

Reviews by T. Kimball:

November, 1918; vol. 7, p. 605–613. *Reprinted.*
January, 1920; vol. 9, p. 21– 31. *Reprinted.*
January, 1921; vol. 10, p. 39– 50. *Reprinted.*
January, 1922; vol. 11, p. 27– 33. *Reprinted in fuller form.*
February, 1923; vol. 12, p. 77– 82.

TOWN PLANNING IN OTHER COUNTRIES

THE forthcoming full catalogue of the International Town Planning Exhibition at Gothenburg, Sweden, 1923, is to contain a series of brief articles on town planning work in each of the many countries to be represented. Reports from delegates at the meetings of the International Garden Cities and Town Planning Federation, often published in *Garden Cities and Town Planning*, and delegates' reports at the Interallied Town Planning Conference in Paris in 1919, etc., give the best available accounts of progress.

The following notes, compiled from information at hand, are intended mainly to give the student an idea of organizations to get in touch with, magazines to read, and subjects of town planning interest in foreign countries.

GREAT BRITAIN

The British technical society in this field is the Town Planning Institute, founded in 1913, with its Secretary's office at Maxwell House (11 Arundel Street, Strand), London. Its *Papers* are published serially as separates and also made up into an annual volume. The Garden Cities and Town Planning Association (3 Gray's Inn Place, London) has published a monthly periodical since 1906 and conducted an active and effective campaign for the formation of garden suburbs and garden cities. The success of Letchworth, the first garden city, is now established. The National Housing and Town Planning Council (Henry R. Aldrich, Secretary, 41 Russell Square, London), originally founded as The National Housing Reform Council, has been interested in immediate housing problems and legislative relief, especially by furthering the passage of the Housing, Town Planning, etc., Acts; and the Council has also conducted effective local educational campaigns.

The Department of Civic Design at the University of Liverpool is a center for town planning study, and has published the *Town Planning Review* since 1910.

In addition to *Garden Cities and Town Planning* and the *Town Planning Review*, the periodicals to follow for city planning articles and news in Great Britain are the weekly *Municipal Journal* (London), the *Journal of the Royal Institute of British Architects*, and the monthly *Journal of the London Society*.

The Housing, Town Planning, etc., Act passed in 1919, superseding the older act of 1909, makes town planning obligatory after a certain date deferred from 1923. The Government exercises its authority over town planning and promotes the preparation of town planning schemes through the Ministry of Health. Mr. Raymond Unwin is the principal technical adviser to the Ministry in matters of town planning.

Starting from the earlier proprietary villages like Port Sunlight and with the emphasis distinctly on social and economic aspects, town planning and site planning have made rapid progress in Great Britain; and especially since the war

problems are coming to be treated in regional and national terms. The problems of London and its region are of particular moment. To the American student of town planning going abroad, England has more to offer than any other country, both in current activities and in historic examples with suggestions of practical application in our own land.

References

Garden Cities and Town Planning Association. Reports of annual meetings in *Garden Cities and Town Planning.*

Great Britain, Ministry of Health. Housing and town planning. Part II of Annual report. 1st, 1919–20; etc.

See also references in Bibliography under subject number 6100, for *London of the Future* and other regional studies.

FRANCE

The Société Française des Urbanistes, formed in 1913, is the technical association corresponding to the Town Planning Institute, with its headquarters at the Musée Social (5, rue Las-Cases, Paris), which has long been actively interested in promoting town planning and maintaining collections on the subject. The French garden city association (L'Association des Cités-Jardins), through its Secretary, M. Georges Benoît-Lévy, has been issuing propaganda since 1904. During the war, the Renaissance des Cités (23, rue Louis le Grand, Paris), was formed (1916) to promote the adequate reconstruction of the destroyed towns. It did extensive educational work and assisted in the preparation of demonstration plans, notably Rheims, Chauny, and Pinon.

The French town planning act passed in 1919 in cognizance of urgent reconstruction problems requires cities and towns, with certain exceptions, to formulate planning schemes. The Ministry of the Interior has general supervision of town planning matters, coöperating with the Ministry of the Liberated Regions for matters within the latter's province.

The École des Hautes Études Urbaines of the Institut d'Histoire, de Géographie et d'Économie Urbaines (29, rue de Sévigné) is training men in problems of *urbanisme* and the same Institute promotes the Union des Villes et Communes de France and publishes *La Vie Urbaine* and its fortnightly supplement. At the same address, the Association Française pour l'Étude de l'Aménagement et de l'Extension des Villes has its headquarters.

The Department of the Seine has an *Office des Habitations à bon Marché* (32, Quai des Célestins) responsible for building garden suburbs on the outskirts of Paris.

From the historical point of view, the work of Haussman for Napoleon III in modernizing Paris to produce an effect of civic magnificence is most instructive, especially in comparison with the recent competition studies for greater Paris, based on social and hygienic considerations. To the student of city planning, also, many of the smaller French cities, such as Lyons, Nîmes, Nancy, and Tours

possess much of interest. The rebuilding of towns in the devastated regions and the development of the Paris suburbs are doubtless the most interesting current subjects for study.

References

Benoît-Lévy, Georges. Garden villages in France. *Housing Betterment*, June 1919, vol. 8, no. 2, p. 14–16.

More recent news notes of garden suburbs in *Housing Betterment*, Jan. 1922.

L'Enquête du Congrès Interallié pour déterminer la politique de l'habitation et du plan d'aménagement et d'extension urbain et rural. *La Vie Urbaine*, Apr.–June 1921; vol. 3, p. 85–98.

Status of France defined in answer to questionnaire on housing and town planning policy sent to members of 1920 Interallied Conference.

Jaussely, Léon. Chronique de l'urbanisme. *La Vie Urbaine*, Mar.–June 1919, vol. 1, p. 181–202.

Rosenthal, Léon. L'urbanisme en France du XVII siècle à nos jours. *La Cité* (published in Brussels), Jan. 1921, vol. 2, no. 3, p. 63–68.

See also references on French reconstruction in Bibliography under subject number 1293.

BELGIUM

There is a Société des Urbanistes belges with its headquarters at Brussels. Brussels is also the headquarters of l'Union Internationale des Villes, which brought about the Ghent town planning congress of 1913 and which has inaugurated an International Centre of Civic Documentation (see page 23). L'Union des Villes et Communes belge (rue de la Régence 3 bis, Brussels), corresponding to the French Union, has as director Senator Vinck, who, with MM. Louis van der Swaelmen and Paul Otlet, is largely responsible for the progress of town planning in Belgium. The Government is promoting reconstruction along town planning lines, through the various Ministries and Commissions concerned and l'Union des Villes.

The two Belgian periodicals which regularly contain town planning news are: *La Cité*, published monthly in Brussels (Librairie Lamertin) since July 1919, and *La Mouvement Communale*, also monthly, established in January 1921, as the official organ of l'Union des Villes.

References

Abercrombie, Patrick. Brussels: a study in development and town planning. *Town Planning Review*, July and Oct. 1912, Jan. 1913; vol. 3, p. 97–113, 188–195, 258–272. illus., plans.

Child, Stephen. Some impressions of a two months' visit in Belgium. *Landscape Architecture*, Jan. 1921; vol. 11, p. 66–69.

See also references in the Bibliography under subject numbers 0, 998, and 1293.

GERMANY

There is a Deutsche Akademie des Städtebaues, a technical society, recently founded. The Deutsche Gartenstadt-Gesellschaft, active for many years, has

been instrumental in founding a number of garden suburbs. The K. Technische Hochschule in Berlin has published an extensive series of papers comprising lectures and studies on current and historic phases of city planning (see Bibliography, subject number 180). The monthly periodical *Der Städtebau* (published by Ernst Wasmuth A.G. in Berlin) carried through the war and still is the main source of information on contemporary German work. A considerable number of German books on city planning have been published since 1914, both new works and new editions of older works, including those of Dr. Stübben and Dr. Brinckmann. The German garden city association has renewed its propaganda work and several interesting garden suburb schemes are now being built.

The nineteenth century modernizing of Berlin is considered less instructive to students than the examples of mediaeval town planning to be seen in towns like Rothenburg. Again, Munich, Dresden, and Frankfurt have much to offer the student. The Rhine cities, and ports like Hamburg, are noted for the combination of commercial and recreational uses along the waterfront. Düsseldorf is often cited as an excellent example of the application of modern German town planning principles. The zoning system and land policies of the German cities and the history of city planning in Germany are given in several articles mentioned in the Bibliography.

References

Child, Stephen. Production, not reconstruction, the order of the day in Germany; housing and town planning notes of a visit in October 1921. *American City*, May 1922; vol. 26, p. 437–441. illus.

Eberstadt, Rudolph. Town planning and housing in Germany. *Garden Cities and Town Planning*, Sept.–Oct. 1922; vol. 12, p. 144–145.

Koch, Hugo. Recent park planning in German cities. *Architectural Record*, May 1922; vol. 51, p. 447–454.

SELECTED REFERENCES ON TOWN PLANNING IN MANY PARTS OF THE WORLD

AUSTRALASIA

Reade, Charles C. Planning and development of towns and cities in South Australia; report by the Government Town Planner. Adelaide, Govt. Printer, 1919.
See reference in Bibliography under subject number 707.

Sulman, John. An introduction to the study of town planning in Australia. Sydney, Govt. Printer of New South Wales. 256 pages. illus., plans, etc.

Waller, A. G. Town planning in New Zealand. *Journal of the American Institute of Architects*, Dec. 1918; vol. 6, p. 567–577.

See also Australian and New Zealand Conference Proceedings in Bibliography under subject number 40.

AUSTRIA

Abercrombie, Patrick. Vienna, as an example of city planning. *Town Planning Review*, Oct. 1910, Jan. 1911; vol. 1, p. 220–234, 279–293, and plates. illus., plans.

CANADA

ADAMS, THOMAS. The beginnings of town planning in Canada. *In* Proceedings of 8th National Conference on City Planning, 1916, p. 222–230.

——. Town and regional planning in relation to industrial growth in Canada. *Journal of Town Planning Institute of Canada*, June–Aug. 1921; vol. 1, nos. 4–5, p. 9–15.

The HOUSING and town planning work of the Commission of Conservation. *Ibid.*, Feb. 1, 1921; vol. 1, no. 2, p. 2–4.

News of the activities of such Provincial organizations as the Ontario Town Planning Association has been given in the publications of the Commission of Conservation and lately in the *Journal of the Town Planning Institute.*

See also references in Bibliography under subject numbers 2, 40, 961, 1522.

CHINA

CHINESE cities making themselves modern. Canton has had to handle some unusual problems in making its narrow alleys into broad streets. *Trans-Pacific*, Mar. 1922; vol. 6, no. 3, p. 51–55. illus.

CZECHO-SLOVAKIA

[PROPAGANDA of garden cities in Czecho-Slovakia, a letter from Professor Fabinger, Secretary of Czecho-Slovak Garden Cities Association.] *Garden Cities and Town Planning*, Jan. 1923; vol. 13, p. 13–14.

STYL. [Monthly review published by the Association of Architects, Prague.]

DENMARK

There are several official departments in Copenhagen interested in town planning, and several architects and engineers, including the Afdelingsingenjör A. Bjerre at the City Hall. For description of the Danish town planning laboratory, *see* reference in Bibliography under subject number 998.

EGYPT

MCLEAN, W. H. Local government and town development in Egypt. *Town Planning Review*, Apr. 1917; vol. 7, p. 83–97, and plates.

By the author of the Alexandria town planning report.

FEDERATED MALAY STATES

READE, CHARLES C. Town planning and development in the Federated Malay States. Preliminary report by the Government Town Planner. F. M. S. Govt. Press, 1922. 30 pages.

——. Town planning in British Malaya. *Garden Cities and Town Planning*, Jan. 1922; vol. 12, p. 6–8. illus.

GREECE

LHÉRITER, MICHEL. La nouvelle Athènes: étude d'urbanisme. *La Vie Urbaine*, Oct. 15, 1921; vol. 3, p. 309–345. illus., plans.

MAWSON, THOMAS H. The re-planning of Athens. *Garden Cities and Town Planning*, Aug. 1916; vol. 6, p. 107–112.

By the author of the Plan.

MAWSON, JOHN W. The Salonika town planning act. *Town Planning Review*, Dec. 1921; vol. 9, p. 147–154. plans.

HOLLAND

BERLAGE, H. P. Amsterdam, past and present. *Garden Cities and Town Planning*, Jan. 1922; vol. 12, p. 3–6. plans.

FOCKEMA-ANDREAE (Burgomaster of Utrecht). De hedendaagsche Stedenbouw. *See* reference in Bibliography under subject number 250.

NEDERLANDSCH INSTITUUT VOOR VOLKSHUISVESTING (D. Hudig, Secretary-Director, Amsterdam) publishes a monthly illustrated periodical *Tijdschrift voor Volkshuisvesting*, is initiating a *Serie voor Stedenbouw*, and has a city planning committee. The Institute's 1921 annual report gives a list of societies and individuals constituting its membership.

At the Hague, there is a DIENST DER STADTSONTWIKKELING EN VOLKSHUISVESTING.

INDIA

GEDDES, PATRICK. [Reports for Madras towns, 1914–15, Indore, 1920, etc.]

LANCHESTER, HENRY VAUGHAN. Town planning in Southern India. *In* Town Planning Institute, London, Papers and discussions, 1916–17; vol. 3, p. 89–115.

MIRAMS, A. E. Town planning in Bombay under the Bombay Town Planning Act, 1915. *Ibid.*, 1919–20; vol. 6, p. 43–56. diagrams.

RICHARDS, E. P. [Report for Calcutta Improvement Trust on Calcutta and contiguous areas, 1917.]

IRELAND

CORK HARBOUR COMMISSIONERS. Complete report and comprehensive plan for development of Cork Harbour, by George F. Nicholson, consulting engineer. 1922.

For plan of Dublin, *see* reference in Bibliography under subject number 880.

ITALY

ADSHEAD, STANLEY D. An introduction to the planning of modern Italian towns. *Town Planning Review*, Apr. 1912; vol. 3, p. 52–54. illus., plans.

CATTANEO (Avvocat). Housing and town planning in Italy. *Garden Cities and Town Planning*, July 1914; N. S. vol. 4, p. 172–174.

SANJUST DI TEULADA, EDMONDO. Piano regolatore della città di Roma. 1908.

JAPAN

GULICK, LUTHER. City planning in the Flowery Kingdom. *American City*, Apr. 1921; vol. 24, p. 429.

GOTO, BARON S. Greater Tokyo plan for 7,000,000 population. Improvement program. *Trans-Pacific*, Dec. 1921; vol. 5, p. 45–54. illus., plan.

UCHIDA, K. Awakening interest in a better Tokyo. City planning association active. *Ibid.*, p. 55–58. illus.

In addition to the Japanese national city planning bureau in the Department of Home Affairs there are municipal city planning bureaus in Kioto, Kobe, Nagoya, Osaka, Tokyo, and Yokohama.

LATIN AMERICA

AMERICAN CITY magazine published a series of illustrated articles featuring city planning and municipal improvements in Latin America: Jan. 1915, on Chile, by John E. Lothrop; and Jan.–Dec. 1918, on eight leading cities of South America and on Mexico City, through the courtesy of the Pan-American Union.

See also reference in Bibliography under subject number 880 for Montevideo competition plans.

GASTON, PEDRO PABLO. El nuevo plano de la Habaña. *Revista de la Sociedad Cubaña de Ingenieros*, June 1918; vol. 10, p. 331–357. plan.

REVISTA MUNICIPAL, edited by Dr. F. Carrera Justiz, published fortnightly in Havana, carries news of city planning in Latin America and other parts of the world.

See also reference in Bibliography under subject number 998.

NORWAY

GIERLÖFF, CHRISTIAN. The garden city movement in Norway. *Garden Cities and Town Planning*, Oct. 1921; vol. 11 p. 237–238. illus.

Also previous article by the same author (Secretary of the Norwegian Housing and Town Planning Association), *Ibid.*, Mar. 1920.

PALESTINE

ASHBEE, C. R. [Report on Jerusalem, 1918–1920.] Published in London by Murray, 1921.

GEDDES, PATRICK. The city of Jerusalem. *Garden Cities and Town Planning*, Nov. 1921; vol. 11, p. 251–254. illus., plan.

PORTUGAL

PARKER, BARRY. Oporto. *Town Planning Review*, Oct. 1916; vol. 7, p. 28–40, and plates.

Reviews his Report on Oporto, with plan for remodelling the central area.

ROUMANIA

BUCAREST. A new modern city in the making. *American City*, May 1911; vol. 4, p. 219–223. illus., plan.

RUSSIA

GROER, ÉTIENNE DE. De l'urbanisme en Russie. *La Vie Urbaine*, Dec. 15, 1921; vol. 3, p. 417–425. maps. Also translated in *Garden Cities and Town Planning*, July–Aug. 1922.

Brief historical sketch and outline of modern city planning in Russia to 1920, with bibliography.

GUELMAN, J. Garden cities for Russia. *Garden Cities and Town Planning*, Feb. 1923; vol. 13, p. 21–24.

SPAIN

BARCELONA, AYUNTAMIENTO. Reforma interior de Barcelona. [Report, 1907.]

LA SOCIEDAD CÍVICA DE LA CIUDAD JARDIN, Barcelona, began in 1920 a tri-monthly bulletin *Civitas*.

MADRID'S scheme of city planning. *American Architect*, Aug. 11, 1920; vol. 118, p. 173.

See also reference on La Ciudad Lineal in Bibliography under subject number 5550.

SWEDEN

SWEDEN. [Report of Royal Committee.] Betänkande med förslag till stadsplanelag och författingar. Stockholm, Govt. Printer, 1920. 379 pages. illus., plans.

Contains proposals for city planning and housing.

The Kungliga Byggnadstryelsen, in Stockholm, and the Stockholms Stads Byggnadskontor (Stadsplanebyrån) are both active in promoting city planning.

The Stadtsingenjör of Gothenburg, A. Lilienberg, has been active in bringing about the International Town Planning Exhibition there in the summer of 1923 (see *ante*).

See also reference in Bibliography under subject number 230, and analysis of Swedish Town Planning law in Mr. Williams's book (700).

SUGGESTIONS ON CONDUCTING PUBLICITY CAMPAIGNS FOR CITY PLANNING AND ZONING

Prepared in response to numerous requests for information on this subject. Rewritten from article by the author in *Landscape Architecture*, Quarterly, July 1922. For a list of references on educational campaigns, see p. 70, of this *Manual*.

WHOM TO REACH

To attract the attention and arouse the interest of every voter, — man and woman, — in the community, and to convince them of the value of city planning so that they will vote for and not against it when the issue comes up, is the object of an educational campaign for city planning. No group of citizens and no section of the locality should be overlooked; nor must non-resident property owners, whose opposition might be a disturbing element, be forgotten. Citizens and tax payers alike have something to gain from the adoption of a comprehensive city plan, and of zoning regulations, and every one of them, however obscure or modest, is worth reaching.

When those who have organized to conduct the publicity campaign have secured the aid of their local newspapers, have enlisted the support of the civic and social clubs in the community, have convinced the Chamber of Commerce and other business organizations, and have lined up the municipal officials, — have in short done everything they can think of to reach the voters, — they still have an additional opportunity in educating the boys and girls who are the voters-to-be. Moreover, there may be some other stone left unturned which will prove a new and original rallying point.

SECURING NEWSPAPER AID

The first step in a publicity campaign is to make the editors of the local newspapers realize not only that city planning and zoning are good things but that the subjects have news value. When they understand that more than a hundred communities in the United States have already adopted zoning and that all the large cities have zoning plans in progress, they will see that there must be something in it. The fact that their city is behind other cities and is losing advantages which others have gained, lends itself to write-ups and editorial comment. If space can be secured for a series of special articles and for pithy paragraphs on the editorial page in some given column, this will be a valuable addition to the ordinary news items of local meetings and lectures which occur in the course of the publicity campaign. *Without* the continued aid of the newspapers, there is no hope of reaching the great mass of citizens. *With* newspaper support, the photographs, cartoons, and telling arguments, furnished or inspired by the leaders of the cam-

paign, will be seen and gradually absorbed by those who would not read a pamphlet on city planning or zoning alone, but who must vote for the plan if it is to succeed.

ENLISTING SUPPORT OF LOCAL CLUBS

When the newspapers have agreed to give space to the campaign, there should be a thorough stock taking of local clubs which have been accustomed to promote civic improvement and the doings of which are followed with interest by many who are not active participants. The City Club, The Women's Clubs, Civic Improvement Associations of various sorts, Neighborhood Clubs, Junior Leagues, Art Associations, Commercial Clubs, may all be willing to add a speaker to their programs and to appoint a representative to serve on a general citizens' advisory committee to aid in the promotion of city planning and zoning.

ENROLLING BUSINESS ORGANIZATIONS

The backbone of such an advisory committee may well be composed of representatives from the Chamber of Commerce and other business organizations of the community, especially the local real estate board. There is no group of men in a town more intimately concerned with the problems which city planning helps to solve than the realtors. There is a talking point when the local board realizes that the National Association of Real Estate Boards through its President and other officials has gone on record as believing in and desiring to promote zoning and city planning.

Chambers of Commerce throughout the country have proven themselves willing and generous agents in forwarding civic improvement. The officers and appropriate committees of the Chamber of Commerce, or Board of Trade, should be thoroughly informed of the nature and value of city planning, so that an official endorsement by the Chamber may attract the support of lesser business organizations and doubting citizens who measure the worth of a cause by its financial backing. It is often the case that a group from the Chamber of Commerce is the active force in initiating the publicity campaign.

CONVINCING MUNICIPAL OFFICIALS

The close coöperation of local municipal authorities should be secured at the very outset of the campaign. If the Mayor and Board of Aldermen, or Common Council, or Board of Selectmen, and the various Boards of Commissioners, Building Department, Street Department, Public Works Department, Park Department, and so on, can be made to see early in the game substantial advantages gained in other cities by planning, a tremendous amount of time may be saved. A hostile administration may postpone the approval of a comprehensive plan or the passage of a zoning ordinance until the next election, when, however, it may become a successful issue, backed by the educated force of public opinion.

As soon as the Mayor or Board of Aldermen is convinced, an official city plan commission should be appointed to begin the study of a comprehensive plan, taking advantage of any work towards this end already undertaken by some existing board or committee. It is not well to appoint a special zoning commission without a plan commission, for it should not be forgotten by the municipal officials that zoning is only a part of the general city planning program and that it is of little value unless related to other studies being made for the orderly development of the municipality as a whole.

EDUCATING FUTURE CITIZENS

Allies not only to support the plan in the future but also to interest parents and friends in its adoption may be gained through talks in the public schools. Group meetings for teachers are needed so that they may understand what city planning is and does, before they teach its advantages to their pupils. If prizes are offered for the best essays on "What a Plan will do for Our Town," the questions asked by the children of parents and relatives will often stimulate interest in the subject in quarters not reached in any other way. In many cities city planning is coming to be taught regularly as a part of elementary and high school courses in civics, and some of the general textbooks on civics now carry a chapter on the subject.

FOLLOW-UP WORK

A publicity campaign for city planning is not finished when the municipality has pledged itself to a plan program, — for instance, in the case of zoning, when hearings are being successfully conducted, and even when the ordinance has actually been passed. The first two years of zoning in operation are critical ones and the essential integrity of the zoning plan depends on a continuing educational campaign until such time as its benefits can speak for themselves. Popular opinion must be thoroughly roused against selfish proposals for changes in the plan. Real instances of tangible advantages arising from the passage of the zoning ordinance should be described in the newspapers, so that those who have voted for the ordinance may feel confirmed in the wisdom of their action, and that doubting Thomases may be converted by what they can see before their very eyes. So, too, in the case of the official street plan constant watchfulness is necessary to prevent individual owners from securing subversive exceptions. In each case having by the original campaign attracted attention, convinced of value and "made the sale," the leaders of the movement can by suitable publicity keep their customers satisfied with their purchases and prevent unnecessary exchanges and alterations.

SUCCESSFUL PUBLICITY METHODS IN ZONING CAMPAIGNS

In a community there may be already well established methods of conducting a publicity campaign. Certain points of attack may have proved more favorable than others. A list of all the methods which have been used successfully in zoning

and city planning campaigns in various cities in the United States comprises practically all the means and methods used in many other kinds of educational campaigns.

The publicity in the newspapers has included daily "feature" columns, display articles in "magazine" sections, special supplements, letters to the editor, official advertisements of hearings, advertisements inserted as part of the campaign, and, of course, editorials and news items.

Official organs of local bodies, — chambers of commerce or citizens' committees, — have given regular space and special numbers to city planning and zoning, and periodicals with wide local circulation have run articles and features.

Special pamphlets and reports have been issued at various stages in the game and these have been backed up by widely circulated bulletins, flyers, even postcard notices, besides posters and window displays.

In all printed matter the use of photographs and cartoons has proved effective. In fact the general principles of modern advertising should be applied to all material prepared for use in the city planning campaign.

Lectures, conferences, meetings, and discussions, in many cases illustrated by lantern slides or moving pictures, reach some people averse to reading printed matter, and bring out and drive home points which need to be emphasized. Addresses by speakers from other cities where city planning or zoning has proved its value and by local officials who have become convinced, debates or readings of prize essays, all have their place in a live campaign. Fuel for publicity may often be found in discussion at the numerous public hearings held during the later stages of the preparation of the zoning plan.

Talks to children in the public schools, as already suggested, field work by children in finding examples in various neighborhoods where zoning is needed, or in listing streets where congestion is evident, lectures to parent-teacher associations, and so on, have all been successfully employed in several cities.

An exhibition of photographs and drawings showing conditions in the town, the repetition of which will be prevented by zoning, would be an effective feature in the campaign. "Know your town" exhibits have proven valuable in several instances and city planning takes its place with other features of such a civic exhibition.

When a lot of people are working for a common cause, they come to believe thoroughly in it, and the more people who work, the more centers of support. Those publicity methods which make the greatest number of people feel that they are helping to secure city planning are the best methods for any given community.

HOW TO GET HELP

The Civic Development Department of the Chamber of Commerce of the United States (Mills Bldg., Washington, D. C.) aids in promoting city planning and zoning, its work being carried on chiefly through local chambers of commerce

which are members of the national chamber; and the Office of the Secretary of the American Civic Association (Union Trust Bldg., Washington, D. C.) is a source of general information on campaigns for civic improvement.

The Library of the School of Landscape Architecture at Harvard University has been making a special collection of information on city planning and zoning publicity campaigns in cities of the United States, and this information has been used in the preparation of the present article.

The Division of Building and Housing of the Department of Commerce, Washington, D. C., is collecting information from cities in different parts of the country where publicity campaigns have been conducted and where zoning is now in operation. Secretary Hoover's Advisory Committee on Zoning has prepared for the Division of Building and Housing a Zoning Primer explaining the nature and advantages of zoning, which is an excellent example of an educational pamphlet and has been given large publicity in newspapers and magazines.

Nearly all the organizations listed on p. 17 are leading in promoting phases of city planning most closely allied to their respective fields.

The office of the Secretary of the National Conference on City Planning, 130 East 22d Street, New York, constantly aids in furthering educational work in city planning and keeps in touch with movements throughout the country.

LANTERN SLIDES AND FILMS ON CITY PLANNING SUBJECTS

THE AMERICAN FEDERATION OF ARTS (Miss Leila Mechlin, Secretary, 1741 New York Ave., Washington, D. C.) has, in addition to a travelling exhibition on city planning, two lectures on Civic Art, with lantern slides. The Federation circular describes these as follows:

401. CIVIC ART: A. By Leila Mechlin, *Editor, American Magazine of Art.* A review of the best that has been done in city building in this country with reference to work of similar character abroad. What city planning means and how it embraces architecture, landscape architecture, sculpture, down to design of minor features such as lamp posts, pumps, trolley poles, etc., etc. A lecture purposed to arouse interest in town planning. *57 illustrations.*

402. CIVIC ART: B. By Leila Mechlin, *Editor, American Magazine of Art.* Differs from A in being confined entirely to examples in the United States — buildings, monuments, sculpture, parks, water-fronts, works of special worth and significance illustrating the most successful accomplishments, with brief comment. Originally prepared for use in Camps of the United States and French armies in France. *60 illustrations.*

To obtain a lecture and the slides, application should be made to the Secretary of the Federation, with payment of an advance rental fee of $5.00. Transportation charges both ways should later be paid.

THE NATIONAL CONFERENCE ON CITY PLANNING also expects to undertake the circulation of three or four sets of slides on city planning at a nominal charge.

THE HOUSE BEAUTIFUL (8 Arlington St., Boston) Readers' Service has offered lantern slides on "The Town Beautiful" for a rental fee.

THE COMMITTEE ON PLAN OF NEW YORK AND ITS ENVIRONS (130 East 22d St., New York) has several sets of lantern slides which will be loaned in the New York region on payment of a small fee.

THE BUFFALO City Planning Association has excellent sets of slides for local loaning purposes, and similarly the CHICAGO Plan Commission, BOSTON Planning Board, CLEVELAND City Plan Commission, and PITTSBURGH Citizens Committee on City Plan have notable lantern slide collections.

THE CHICAGO PLAN COMMISSION prepared and used a moving-picture film entitled "A Tale of One City" which received widespread attention. The American City Bureau inaugurated in 1922 a CIVIC FILM SERVICE, Inc. (443 Fourth Ave., New York), starting with a zoning film called "Growing Pains." This film has met with marked success.

In England, THE MINISTRY OF HEALTH had a housing film prepared, to show the garden suburb type of development. Films of the British war housing developments were shown in Canada and the United States to accompany lectures by Mr. Thomas Adams.

The British center for town planning lantern slides for loan or purchase is the office of THE GARDEN CITIES AND TOWN PLANNING ASSOCIATION (3 Gray's Inn Place, London). In connection with its propaganda work it has assembled a large collection on garden cities and suburbs, and on many special phases of town planning.

TWENTY-FIVE REFERENCES FOR A CITY PLANNING LIBRARY

ADAMS, THOMAS. Modern city planning, its meaning and methods. Special number of *National Municipal Review*, June 1922, vol. 11, pp. 157–177. plans. (Technical Pamphlet Series.)

A convenient summary.

BASSETT, EDWARD M. Zoning. [26 pages.] (National Municipal League, Technical Pamphlet Series no. 5, 1922.)

The authoritative brief treatise on the subject.

BIRD, CHARLES S., *Editor*. Town planning for small communities, by Walpole (Mass.) Town Planning Committee. New York, D. Appleton & Co., 1917. 492 pages. illus., plans. (National Municipal League Series.)

COMEY, ARTHUR C. Regional planning theory, a reply to the British challenge. Cambridge, 1923. 18 pages. diagrams (part colored).

An up-to-date exposition of the English garden city theory, the challenge referred to by Mr. Comey, will be found in *Town Theory and Practice*, edited by C. B. Purdom. London, Benn Bros., Ltd., 1921. 139 pages. illus.

KNOWLES, MORRIS. Industrial housing, with discussion of accompanying activities; such as town planning, street systems, development of utility services, and related engineering and construction features. New York, McGraw Hill Book Co., 1920. 408 pages. illus., plans.

KIMBALL, THEODORA, *Editor*. Municipal accomplishment in city planning and published city plan reports in the United States, from information assembled largely by the Detroit City Plan Commission. Published under the auspices of the National Conference on City Planning, Boston, 1920. 79 pages.

——. Manual of information on city planning and zoning, including references on regional, rural, and national planning. Cambridge, Harvard University Press, 1923. (Issued under the auspices of the National Conference on City Planning.) 188 pages.

LEWIS, NELSON P. The planning of the modern city, a review of the principles governing city planning. With the assistance of Harold M. Lewis. 2d edition, revised. New York, John Wiley & Sons, 1923. 457 pages. illus., plans, diagrams. — First published 1916.

Contains carefully verified information on American and foreign city planning practice.

MOODY, WALTER D. What of the city? America's greatest issue — city planning, what it is and how to go about it to achieve success. Chicago, A. C. McClurg & Co., 1919. 441 pages. illus., plans.

On the promotion of city planning with especial reference to the experience of Chicago.

NATIONAL CONFERENCE ON CITY PLANNING. Proceedings, published by the Conference (130 East 22d St., New York City), 1910 to date. *Some volumes contain* illus.

A valuable file of general and technical papers by representatives of the various professions engaged in city planning work, including engineers, landscape architects, architects, lawyers, realtors, social economists and municipal officials.

NICHOLS, J. C. Real estate subdivisions, the best manner of handling them. 2d edition. Washington, American Civic Association, 1916. 15 pages. (Department of City Making, Series II, no. 5.) — First published Nov. 1912.

NOLEN, JOHN, *Editor*. City planning; a series of papers (by seventeen specialists) presenting the essential elements of a city plan. New York, D. Appleton & Co., 1916. 447 pages. illus., plans. (National Municipal League Series.)

——. New ideals in the planning of cities, towns and villages. New York, American City Bureau, 1919. 138 pages. illus.
A short, popular and readable book.

PLAN OF NEW YORK AND ITS ENVIRONS, Russell Sage Foundation. The meeting of May 10, 1922. [25 pages.]
Of great importance as a demonstration of regional planning ideals and technique. Contains addresses in behalf of planning, by Herbert Hoover, Elihu Root, and others. The organization for preparing comprehensive surveys and plans is more fully outlined in the *Report of Progress*, Plan of New York, May 1922–February 1923. 67 pages.

PRAY, JAMES STURGIS, and THEODORA KIMBALL. City planning; a comprehensive analysis of the subject arranged for the classification of books, plans, photographs, notes and other collected material, with alphabetic subject index. Cambridge, Harvard University Press, 1913. 103 pages. (Used for the arrangement of the bibliography in this present *Manual*.)

ROBINSON, CHARLES MULFORD. City planning, with special reference to the planning of streets and lots. New York, G. P. Putnam's Sons, 1916. 344 pages. photos, plans.
Of especial importance in relation to the platting of residential districts.

——. The improvement of towns and cities or the practical basis of civic aesthetics, 5th revised edition. New York, G. P. Putnam's Sons, 1922. 313 pages. — First published 1901.

——. Modern civic art or the city made beautiful, 4th edition. New York, G. P. Putnam's Sons, 1918. 381 pages. illus. — First published 1903.
An interpretation of civic ideals.

SHURTLEFF, FLAVEL, and FREDERICK LAW OLMSTED. Carrying out the city plan, the practical application of American law in the execution of city plans. New York, Survey Associates, 1914. 349 pages. (Russell Sage Foundation.)
Should be supplemented by F. B. Williams's *Law of City Planning and Zoning*.

TAYLOR, GRAHAM ROMEYN. Satellite cities, a study of industrial suburbs. New York, D. Appleton & Co., 1915. 333 pages. illus., plans. (National Municipal League Series.)

U. S. BUREAU OF INDUSTRIAL HOUSING AND TRANSPORTATION. Report of the United States Housing Corporation. Washington, Government Printing Office, 1919–20. 2 vols. illus., plans.
Vol. I (1920), edited by James Ford: Organization, policies, transactions. 391 pages. — Vol. II (1919), edited by Henry V. Hubbard: Houses, site-planning, utilities. 524 pages. A valuable compendium of technical methods, fully illustrated.

UNWIN, RAYMOND. Town planning in practice; an introduction to the art of designing cities and suburbs. London, T. F. Unwin, 6th impression, 1919. 416 pages. illus., plans. — First published 1909.
The standard British work on the subject.

WACKER'S manual of the plan of Chicago; municipal economy. Especially prepared for study in the schools of Chicago, Auspices of the Chicago Plan Commission, by Walter D. Moody. 2d edition, 1916. 137 pages. illus., plans. — First published 1912.

WAUGH, FRANK A. Rural improvement; the principles of civic art applied to rural conditions, including village improvement and the betterment of the open country. New York, Orange Judd Co., 1914. 265 pages. illus.

WILLIAMS, FRANK B. The law of city planning and zoning. New York, The Macmillan Co., 1922. 738 pages. (The Citizen's Library of Economics, Politics and Sociology — New Series, edited by R. T. Ely.)

The authoritative comprehensive work. A brief summary was published as Technical Pamphlet Series no. 8 of the National Municipal League, 1922.

The following books which are out of print would be particularly useful additions to the city planning "library."

ADAMS, THOMAS. Rural planning and development, a study of rural conditions and problems in Canada. Ottawa, Commission of Conservation, Canada, 1917. illus., plans.

HURD, RICHARD M. Principles of city land values. New York, Published by The Record and Guide, 1903. 159 pages. illus., plans. (All impressions, including latest, 1911, now out of print.)

The following large and expensive folios contain many interesting illustrations.

HEGEMANN, WERNER, and ELBERT PEETS. The American Vitruvius: an architects' handbook of civic art. New York, The Architectural Book Publishing Co., 1922. 298 pages. illus., plans.

MAWSON, THOMAS H. Civic art; studies in town planning, parks, boulevards and open spaces. London, B. T. Batsford, 1911. 375 pages. illus., plans.

SHORT LIST OF TYPICAL AMERICAN CITY PLAN REPORTS

THE reports in this list have been selected to represent the various types of American city plan publications — comprehensive or on some special problem of city planning, prepared by a group of consultants or by a single specialist, proposals or records of accomplishment, notable as exemplifying general principles of city planning or as a collection of highly specialized illustrations or statistics useful to other municipalities facing similar special problems. In the period of more than two decades covered by the list, there has been a marked development of technique in the presentation of city plan reports, which may be readily gathered by the student through examination and comparison of the almost forty reports here mentioned, and also of some of those not mentioned, equally worthy of study, out of the very large number of plan reports already published in the United States.

1902 U. S. CONGRESS. SENATE COMMITTEE ON THE DISTRICT OF COLUMBIA. The improvement of the park system of the District of Columbia. I.—Report of the Senate Committee on the District of Columbia. II. — Report of the Park Commission. Edited by Charles Moore. Washington, Govt. Printing Office, 1902. 179 pages. illus., plates, maps (folded), plans. (57th Congress. 1st Session. Senate Report no. 166.)

1909 COMMERCIAL CLUB OF CHICAGO. Plan of Chicago prepared during the years MCMVI, MCMVII, and MCMVIII, by Daniel H. Burnham and Edward H. Bennett, architects; edited by Charles Moore. Chicago, 1909. 164 pages. illus., plates (part folded), plans, maps, diagrams. Many of the illustrations are colored renderings by Jules Guérin.

MASSACHUSETTS. METROPOLITAN IMPROVEMENTS COMMISSION. Public improvements for the Metropolitan District. Report of the Commission on Metropolitan Improvements appointed under Resolves of 1907, chapter 108, to consider the subject. Boston, State Printers, 1909. 318 pages. plates, maps, and diagrams (part folded).

1910 OLMSTED, FREDERICK LAW. The improvement of Boulder, Colorado. Report to the City Improvement Association, March 1910. 106 pages.

NEW HAVEN CIVIC IMPROVEMENT COMMITTEE. Report of the New Haven Civic Improvement Commission, Cass Gilbert, architect, Frederick Law Olmsted, landscape architect, to the New Haven Civic Improvement Committee, Dec. 1910. New Haven, Printed by the Tuttle, Morehouse & Taylor Company. 138 pages. illus., plans, tables, diagrams.

1911 OLMSTED, FREDERICK LAW. Pittsburgh main thoroughfares and the downtown district; improvements necessary to meet the city's present and future needs. Prepared under the direction of the Committee on City Planning. Adopted by the Commission, Dec. 1910. Published, 1911. 169 pages. illus., maps (1 folded), plan.

1911 cont. Robinson, Charles Mulford. Better Binghamton; a report to the Mercantile Press Club of Binghamton, N. Y., Sept. 1911. Cleveland, O., Printed by the J. B. Savage Co., 1911. 105 pages. illus., plates, folded map.

Kessler, George E. A city plan for Dallas. Report of Park Board. [Dallas, Printed by the Southwestern Co., 1911.] 58 pages. illus., plates, plans (part folded).

Seattle Municipal Plans Commission. Plan of Seattle. Report of the Municipal Plans Commission, submitting report of Virgil G. Bogue, engineer, 1911. Seattle, Lowman & Hanford Co., [1911]. 191 pages. plates, plans, diagrams, folded maps (in pocket).

1913 Goodrich, E. P., and George B. Ford. Housing report to the City Plan Commission of Newark, N. J. Report made for Mr. Goodrich and Mr. Ford by Dr. James Ford. Newark, 1913. 75 pages. plates, maps, tables.

Arnold, Bion J. Report on the improvement and development of the transportation facilities of San Francisco. Submitted to the Mayor and the Board of Supervisors. San Francisco, [The Hicks-Judd Co.], 1913. 475 pages. illus., plates (including maps, plans, diagrams), tables.

New York (City) Heights of Buildings Commission. Report to the Committee on the height, size and arrangement of buildings of the Board of Estimate and Apportionment of the City of New York. Dec. 23, 1913. 295 pages. illus.

1914 Brunner, Arnold W., and Charles Downing Lay. Studies for Albany. [New York, Bartlett-Orr Press], 1914. 101 pages. illus., plans (3 folded, 1 colored).

New York (City) Board of Estimate and Apportionment. Development and present status of city planning in New York City. Being the report of the Committee on the City Plan, Dec. 31, 1914, together with papers presented at a meeting of the Advisory Commission on City Plan, Dec. 17, 1914. New York, The Board, 1914. 76 pages. illus., map, plans (folded).

1915 Chicago Association of Commerce. Smoke abatement and electrification of railway terminals in Chicago. Report of the Chicago Association of Commerce, Committee on smoke abatement and electrification of railway terminals. Chicago, [Rand, McNally & Co.], 1915. 1177 pages. illus., plans, plates, diagrams (part folded, part colored).

Olmsted Brothers. Report on a proposed parkway system for Essex County, N. J. Brookline, Mass., June 4, 1915. 84 pages. map.

1917 Minneapolis Civic Commission. Plan of Minneapolis, prepared by Edward H. Bennett, architect; edited and written by Andrew Wright Crawford, Esq. Minneapolis, The Commission, 1917. 227 pages. illus., maps, plates and plans (part colored, part folded).

New York (City) Commission on Building Districts and Restrictions. Final (comprehensive) report, June 2, 1916. New York, Board of Estimate and Apportionment Committee on the City Plan, 1917. 299 pages. illus., maps (part folded), plans.

St. Louis City Plan Commission. Problems of St. Louis, being a description, from the city planning standpoint, of past and present tendencies of growth, with general suggestions for impending issues and necessary future improvements. St. Louis, Mo., Nixon-Jones Printing Co., 1917. 140 pages. illus., plans (1 folded). Harland Bartholomew, city plan engineer.

This report was followed by a notable series of detailed studies, each published in a separate report, on major streets, recreation, zoning, public building group, housing, transit, and terminals.

1919 Nolen, John. City plan for Akron, prepared for Chamber of Commerce. [Cambridge, The University Press], 1919. 91 pages. illus., plans (part folded), diagrams.

Contains legal summary published in full in pamphlet by F. B. Williams entitled "Akron and its planning law."

Manning, Warren H. City plan of Birmingham. Published by subscription, Birmingham, Ala., 1919. 47 pages. illus., maps, plans, and charts (part folded).

Fairmount Park Art Association. The Fairmount Parkway; a pictorial record of development from its first incorporation in the city plan in 1904 to the completion of the main drive from City Hall to Fairmount Park in 1919. Philadelphia, Fairmount Park Art Association, 1919. [30 pages.] illus., plans, sections.

1920 Haynes, Rowland, and Stanley P. Davies. Public provision for recreation. Cleveland, Cleveland Foundation Committee, 1920. 198 pages. illus., maps, tables. (Cleveland Recreation Survey.)

Nolen, John, and Bion J. Arnold. The city plan of Flint, Michigan, as approved by the City Planning Board and accepted by the Common Council. Flint, Published by the City Planning Board, 1920. 95 pages. illus., maps (folded), plans, diagrams.

California Railroad Commission. Engineering Department. Report on railroad grade crossing elimination and passenger and freight terminals in Los Angeles. Los Angeles, 1920. 587 pages. illus., maps and diagrams (part folded and part colored). Richard Sachse, chief engineer.

Milwaukee Board of Public Land Commissioners. Zoning for Milwaukee. Tentative report of Board of Public Land Commissioners, June 1920. 56 pages. illus., maps, plan (folded). Arthur C. Comey, consultant.

New York, New Jersey Port and Harbor Development Commission. Joint report with comprehensive plan and recommendations. Albany, J. B. Lyon Co. (State Printers), 1920. 495 pages. illus., maps (part folded), plans, diagrams.

Bartholomew, Harland. The city plan of Hamilton, Ohio, Published by the Chamber of Commerce, 1920. 66 pages. illus., plans.

Legal section by Alfred Bettman.

1921 Cleveland City Plan Commission. The Cleveland zone plan, report to the City Plan Commission outlining tentative zone plan for Cleveland, by Robert H. Whitten and Frank R. Walker, City Plan advisers, 1921. 23 pages. illus., plans, cartoons.

Citizens Committee on City Plan of Pittsburgh. A major street plan for Pittsburgh, a part of the Pittsburgh plan. Issued by the Committee, Sept. 1921. 65 pages. illus., plans (part folded). Frederick Bigger and Harland Bartholomew, consultants.

1921 cont. PORTLAND (ORE.) CITY PLANNING COMMISSION. Major traffic street plan, boulevard and park system for Portland, Ore., 1921. 97 pages. illus., maps, folded plan. (Bulletin no. 7 of the Commission.) Charles H. Cheney, consultant.

1922 BARTHOLOMEW, HARLAND. The Lansing plan, a comprehensive city plan report (to City Plan Commission) for Lansing, Mich. [1921, published 1922.] 62 pages. illus., plans (1 folded).

EAST ORANGE CITY PLAN COMMISSION. City plan for East Orange, Essex County, N. J., prepared by the City Plan Commission. New York, Technical Advisory Corporation, 1922. 80 pages. illus., plans (part folded), tables.

FALL RIVER (MASS.) PLANNING BOARD. Report of the Planning Board; Report of Arthur A. Shurtleff, Town Planner. Boston, The Pinkham Press, 1922. 43 pages. illus., plans. *folio.*

John P. Fox, consultant on zoning.

PATERSON (N. J.) CITY PLAN COMMISSION. The thoroughfares and traffic of Paterson. A report prepared by Herbert S. Swan. Approved by City Plan Commission, Jan. 20, 1922. 82 pages. illus., plans.

Followed by second report on Separation of Street and Railroad Grades, by H. S. Swan and A. W. Tuttle, also published 1922.

ST. PAUL CITY PLANNING BOARD. Plan of St. Paul, the capital city of Minnesota; Edward H. Bennett and William E. Parsons, consultant city planners; George H. Herrold, city plan engineer. Submitted to the citizens of St. Paul by the City Planning Board. Published by the Commissioner of Public Works, 1922. 64 pages. illus., plans (part folded), diagrams.

SPRINGFIELD (MASS.) PLANNING BOARD. A city plan for Springfield, Mass. Progress report by the Planning Board, May 1922. 59 pages. photos, plans, diagrams. Technical Advisory Corporation, consulting engineers. F. L. Olmsted, special adviser.

The forthcoming final report will contain extensive information on city planning technique.

1923 NORWOOD (MASS.) TOWN PLANNING BOARD. Report to the citizens of the town, 1923. — Report of Arthur A. Shurtleff, Town Planner. — Supplementary reports: Zoning, by John P. Fox. — Civic centers, by Harry J. Carlson. — Legal aspects, by Flavel Shurtleff. 40 pages. illus., diagrams, folded map and plan.

UNIVERSITIES, COLLEGES, AND TECHNICAL SCHOOLS OFFERING INSTRUCTION IN CITY PLANNING

The Harvard University School of Landscape Architecture, where graduate instruction in City Planning was first offered in 1910, announced in May 1923, a full technical course in City Planning leading to the master's degree in that specially designated field (M.L.A. *in City Planning*). This new option in City Planning comprises several of the courses in this subject already given in the School, amplified and arranged to give a more intensive technical training. Professor J. S. Pray, Chairman of the School, and Professor H. V. Hubbard, both members of the American City Planning Institute, will continue their instruction aided by the present staff of the School. Distinguished practitioners of city planning from outside the University will also give lectures. The Library of the School has for some time been considered the national center of information on city planning, and, with the recent addition of the Charles Mulford Robinson Memorial City Planning Library, gives unequalled opportunities for research.

The Chair of Civic Design at the University of Illinois was founded in 1913 and was occupied by Charles Mulford Robinson as Professor of Civic Design until his untimely death in December 1917. Since that date undergraduate instruction in city planning has remained a regular part of the work in the Department of Landscape Gardening. Mr. Harland Bartholomew, City Plan Engineer, of St. Louis, has been appointed Associate Professor of Civic Design (non-resident) and makes periodic visits to the University to conduct his instruction.

In addition to the courses in city planning offered at Harvard University and the University of Illinois, the following institutions announce city planning lectures or class work:

University of California.
Columbia University.
Cornell University.
Dartmouth College.
Iowa State College of Agriculture and Mechanic Arts.
Johns Hopkins University.
Kansas State Agricultural College.
University of Maryland.
Massachusetts Agricultural College.
Massachusetts Institute of Technology.
University of Michigan.
Ohio State University.
Oregon State Agricultural College.
University of Oregon.

Pennsylvania State College.
University of Pennsylvania.
Purdue University.
Syracuse University.
Agricultural and Mechanical College of Texas.
Throop College of Technology.
State College of Washington.
University of Wisconsin.

In England technical courses in town planning are given at the University of Liverpool, Department of Civic Design, and at the University of London. In Paris the École des Hautes Études Urbaines conducts a course in *Urbanisme*, and similar instruction is being instituted in Belgium. The Technische Hochschule in Berlin has one of the oldest courses in city planning.

Canada, Australia, New Zealand, and other parts of the world are also active in introducing the subject into their Universities.

For references to published articles on instruction in city and town planning, see page 83.

SELECTED LIST OF STUDENTS' THESES ON CITY PLANNING SUBJECTS

Prepared under the direction of Professor James Sturgis Pray
In connection with the City Planning Course at the

HARVARD UNIVERSITY SCHOOL OF LANDSCAPE ARCHITECTURE

Bound manuscript with illustrations, available for consultation at the Library of the School of Landscape Architecture, Robinson Hall, Cambridge, Mass.

DATE	LIST FURNISHED BY J. S. PRAY
1910	HARE, S. H. The city block.
	PHILLIPS, W. L. The effect of successive improvements in the means of transportation upon street plans of cities.
	POND, B. W. Report on the historical development of civic waterfronts.
1913	MCCRARY, I. J. Principles of city planning as applied to small towns of New England.
	SMITH, F. B. The interiors of city blocks.
	WEIRICK, R. F. The esthetic treatment of a city's waterfront, with especial reference to the grouping of public buildings on river banks.
1914	BEAL, R. W. Footways in cities.
	BLANEY, H. W. Planning for freight transportation within the city.
1915	FLINT, H. L. The business district in the city plan.
	JOHNSTON, D. B. The market-place in the light of its historical development.
	MORRISON, B. Y. A study of the minor architectural features of civic decoration, especially fountains and monuments.
	PEARSE, R. J. The work of certain unofficial agencies for city planning.
	PEETS, E. Design aspects of city street trees.
	WHITE, S. H. Street design in relation to topography.
1917	BLANCHARD, R. W. What can city planning do to prevent the American slum?
	CORNELL, R. D. Land subdivision into high class residential property.
	SMITH, F. B. Garden city movement in England and in the United States. (Travelling Fellowship report.)
1918	SMITH, J. H. The planning of industrial communities with special reference to the stabilization of employment.
	ZEHRUNG, S. D. Planning health and pleasure resorts.
1920	SEARS, W. R. Alleys.
	STRONG, W. A. Parking spaces for motor vehicles in cities.
	WALKER, H. J. A study of street vistas in town planning.
1921	AUGUR, T. B. Garden cities for America, a logical step in industrial and urban progress.
	FRENCH, P. Building lines.
	GARDNER, K. A. Zoning.
	INGALLS, G. F. City approaches.
	LEE, G. H. The preservation of the individuality of cities.
	WHITNEY, J. F. City boundaries.

1922 CRAM, R. N. New England town commons, based on the study of certain Massachusetts examples.

ZACH, L. H. Promoting city planning: the extent, methods and success of city planning publicity and educational campaigns in this country.

1923 DILL, M. H. Leftover areas in city plats.

ELIOT, C. W., 2d. How city planning pays.

HEAD, F. Bridges: their location in relation to the city plan.

SIAS, R. D. The residential lot as a factor determining the block, with special reference to its depth.

STEVENSON, M. Waterfront possibilities of cities with special regard to their recreational advantages.

MUNICIPAL APPROPRIATIONS FOR THE WORK OF CITY PLANNING COMMISSIONS

Prepared by FLAVEL SHURTLEFF, *Secretary, National Conference on City Planning*

CITIES OF 300,000 AND OVER

In order of population	*1920*	*1921*	*1922*	*1923*
Chicago	$30,000.00	$30,000.00	$40,000.00	$40,000.00
Detroit	50,000.00	42,040.00	27,771.66	27,360.00
Cleveland	28,580.00	35,100.00	7,500.00	5,000.00
St. Louis	20,200.00	18,888.03	20,596.00	21,850.00
Boston	8,002.97[1]	7,313.12	17,072.56[2]	32,192.88[3]
Pittsburgh	30,100.00	25,815.00	26,670.00	27,360.00
Los Angeles	10,806.67	18,407.00	20,415.00	21,901.00
Buffalo	18,940.00	20,840.00	20,600.00	20,820.00
Cincinnati[4]	....	....	....	....
Minneapolis	....	....	40,000.00[5]	....
Indianapolis[6]	....	....	24,000.00	26,360.00

CITIES OF 100,000 TO 300,000

	1920	*1921*	*1922*	*1923*
Rochester, N. Y.	$25,400.00	$26,000.00	$26,000.00	$21,000.00
Portland, Ore.	5,000.00	....	....	6,500.00
St. Paul, Minn.	25,000.00	25,000.00	12,780.00	12,780.00
Omaha, Neb.	....	....	....	4,000.00[7]
Syracuse, N.Y.	5,000.00	10,000.00	7,600.00	4,425.00
New Haven (see next page)	....	....	....	....
Dallas, Texas	....	....	6,000.00	....
Grand Rapids, Mich.	150.00	12,500.00	14,450.00	14,890.00
Paterson, N. J.	....	22,700.00	5,000.00	3,300.00
Youngstown, Ohio	6,600.00	8,700.00	4,630.00	3,100.00
Utica, N. Y.	....	6,024.00	7,944.00[7]	7,997.00[7]
Troy, N. Y.	....	4,500.00	11,000.00[7]	3,000.00

[1] Plus $2,000 for investigation of housing conditions.

[2] Plus $10,000 for preliminary work on zoning and a comprehensive city plan.

[3] Includes $25,000 for comprehensive city plan and zoning.

[4] The Technical Advisory Corporation of New York has been employed to make a city planning report. For this purpose $90,000 is being raised by the city planning committee, a voluntary organization.

[5] Appropriation for the years 1922 and 1923.

[6] All Indiana cities have a minimum appropriation of 3 mills on the dollar of assessed valuation if they have a city plan commission.

[7] Includes appropriation for zoning.

CITIES UNDER 100,000

	1920	*1921*	*1922*	*1923*
Allentown, Pa.	$1,300.00	$800.00	$500.00	$2,000.00
Anderson, Indiana [1]	....	....	....	....
Ashtabula, Ohio	....	....	2,000.00	7,500.00
Brookline, Mass.	600.00	1,100.00 [2]	1,500.00 [2]	700.00
Canton, Ohio	....	....	....	3,000.00
Dayton, Ohio	200.00	50.00	....	....
Easton, Pa.	300.00	300.00	300.00	300.00
East Orange, N. J.	5,750.00	5,000.00	....	....
Elizabeth, N. J.	....	....	....	7,500.00
Flint, Michigan	7,021.97	6,132.62	4,418.77	6,085.00
Framingham, Mass.	500.00	500.00	500.00	500.00
Gary, Indiana	....	5,000.00	9,000.00	1,000.00
Green Bay, Wis.	12,000.00	....	....	200.00
Greensboro, N. C.	....	....	10,000.00 [2]	....
Hartford, Conn.	100.00	100.00	50.00	50.00
Natick, Mass.	700.00	580.00	200.00	800.00
New London, Conn.	....	....	250.00	250.00
Perth Amboy, N. J.	....	2,500.00	2,500.00	4,500.00
Quincy, Mass.	250.00	250.00	250.00	250.00
Rock Island, Ill.	3,500.00	....	1,500.00	....
Scranton, Pa.	1,000.00	1,000.00	1,000.00	1,000.00
Shreveport, La.	....	....	5,000.00	....
Sioux City, Iowa	....	....	6,500.00	1,200.00
South Bend, Indiana	....	....	3,500.00	11,000.00
Taunton, Mass.	300.00	300.00	300.00	300.00
Topeka, Kansas	....	3,000.00	5,000.00	5,000.00
Walpole, Mass.	....	....	....	100.00
Waltham, Mass.	....	....	....	1,000.00
Wichita, Kansas	....	....	18,000.00 [3]	....
York, Pa.	100.00	700.00	5,000.00	5,000.00

APPROPRIATIONS FOR ZONING, PRIMARILY FOR EXPERT WORK

Albany, New York	$15,000.00
Buffalo, N. Y.	11,000.00
Chicago, Illinois	155,300.00
Clinton, Mass.	2,500.00 [4]
Decatur, Illinois	2,000.00
Elizabeth, New Jersey	8,800.00
Malden, Mass.	1,500.00
New Haven, Conn.	25,000.00 [5]
Quincy, Mass.	1,500.00
Rockford, Illinois	2,500.00
Scranton, Pa.	5,000.00

[1] City Planning Engineer's salary paid out of other appropriations.
[2] Includes item for zoning. [3] Includes appropriation for zoning.
[4] In 1924 appropriation for $2,500 will be asked.
[5] These amounts include also a regional survey and highway traffic plan.

BIBLIOGRAPHY

A SELECTED LIST OF REFERENCES COVERING THE FIELD OF CITY PLANNING

Arranged according to a revision of CITY PLANNING, *a Comprehensive Analysis, by J. S. Pray and T. Kimball. Published by The Harvard University Press, 1913*

A Subject Index to the Bibliography will be found on p. 177.

OUTLINE OF THE BIBLIOGRAPHY

ARRANGED IN CLASSIFIED FORM

NOTE: Gaps in serial numbering merely indicate places left in the Classification Scheme for expansion. Reference numbers here used are the first in the series for the given subject.

BIBLIOGRAPHY 0
PERIODICALS 2
SOCIETIES 21
CONGRESSES. CONFERENCES. EXHIBITIONS 40
COLLECTED WORKS AND ENCYCLOPEDIAS 180
BIOGRAPHY 205
HISTORY 210
  European
    Ancient 215
    Mediaeval 225
    Modern 230
  Oriental 235
  American 240
GENERAL WORKS 250
    Brief General Papers 270
CITY PLANNING MOVEMENT 500
  Educational and Publicity Campaigns 540
LEGISLATION. LAWS AND COURT DECISIONS 700
  Creative
    General Planning Laws 707
    Creation of City Planning Agencies 714
    Acquisition of Public Property. Condemnation 722
      Excess condemnation and Replotting 724
  Regulative
    Zoning Legislation 765
    Platting Legislation 770
METHODS OF TECHNICAL PROCEDURE 800
    Making of Surveys 815
    Methods of Presenting Data 832
    Presentation of City Plans 850
    Construction. Municipal Engineering 860
    Coöperation and Functions of Specialists 875
    Professional Charges and Examinations 878
    Competitions 880
STUDY AND TEACHING 900
    Special Schools 980

COMPOSITION OF CITY PLANS. PLANNING. REPLANNING

THEORY AND PRINCIPLES OF DESIGN 1200
General Considerations 1205
Special Considerations
Social 1210
Economic 1225
Esthetic 1235
Historic 1270
War Memorials 1292
Reconstruction after War 1293

FUNDAMENTAL DATA. CIVIC SURVEYS 1300
Climate, Topography, etc. 1320
Population. Growth of Cities. Housing. Public Health and Safety . 1400
Growth of Cities and Decentralization 1424
Cost of Living 1428
Housing 1430
Industrial Conditions 1437
Food Supply and Markets 1443
Public Health and Safety 1445
Water-Supply and Disposal of Wastes 1456
Fire Prevention 1478
Public Recreation 1495
Legal and Administrative Conditions 1500
Federal, State, and Metropolitan Authorities 1521
Municipal Departments and Commissions 1535
Art Commissions 1538
Relation of Municipality to Public Utilities 1541
Economic and Financial Conditions 1550
Urban Land 1563
Taxation in Relation to Development 1568
Financing of Municipal Improvements 1570

ZONING: SUBDIVISION OF CITY AREA INTO FUNCTIONAL DISTRICTS . . 1600
Special Problems 1613
Administrative Centers. Community Centers 1627
Business Districts 1630
Industrial Districts 1650
Residential Districts 1675
Low-cost Residential Districts 1697
Agricultural Areas 1715
Boundaries and Approaches 1745

PLATTING: SUBDIVISION OF CITY AREA INTO STREETS AND LOTS . . . 1800

ELEMENTS OF CITY PLANS

CHANNELS OF TRANSPORTATION 2000

STREETS, ROADS, FOOTWAYS 2050
Motor Transportation as affecting Street Plans 2058
Legislation, including Setbacks and Street Widening 2070
Street Traffic 2076
Street Design. Form. Arrangement. Width. Cross-section . . . 2080
Pavements 2120
Special Problems 2128
Types of Streets According to Function
Major Traffic Streets and Squares 2170
Parkways, Boulevards, and Pleasure Roads 2205
Local Business Streets and Squares 2230
Residential Streets and Squares 2235
Alleys 2242
Footways. Sidewalks 2250
Street Furniture 2290
Street Lighting 2310
(Street Planting, *see* 4875)
(Subsurface Structures, *see* 2850)

STREET RAILROADS AND RAPID TRANSIT 2350
Motor Busses in relation to Transit 2358
Car-tracks, Stations, and Terminals 2382

RAILROADS AND TERMINALS 2450
Electrification 2457
Rights of Way. Stations and Grounds 2460
Freight Terminals 2495
Elimination of Grade Crossings 2510

WATERWAYS AND COMMERCIAL WATERFRONTS 2550
Inland Waterways 2580
Free Ports 2729

AERIAL TRANSPORTATION TERMINALS 2795

CONDUITS AND WIRES. SUBSURFACE UTILITIES 2850
Water-supply Distribution and Sewerage Systems 2880
Central Heating Systems 2902
Electric Wires 2915
Electric Power Supply 2926

BLOCKS AND LOTS. LAND SUBDIVISION 3000
Restrictions 3020
Special Problems 3065
Residential Subdivision 3380

STRUCTURES. BUILDINGS 3415
Buildings
Esthetic Aspects 3455
Legislation 3460
Arrangement. Height 3470
Buildings for Special Uses 3560
Public and Semi-Public Buildings, including Schools and Community Centers. 3563
Commercial and Industrial Buildings 3595
Residences. Low-cost Houses 3633
Minor Buildings 3675
Building groups. Monumental Squares. Civic Centers 3700
Bridges 3740
Minor Structures 3820
Monuments, Statuary, and Fountains 3830
Billboards 3880

PUBLIC OPEN SPACES (OTHER THAN FOR TRAFFIC) 4000
Parks and Park Systems 4040
Legislation and Administration 4050
Park Equipment. 4055
Landscape Parks and Reservations 4100
Forest and Water-supply Reservations 4160
Small Parks. Commons 4250
Squares 4255
Botanical Gardens, Zoos, and Fair Grounds 4265
Playgrounds and Athletic Fields 4300
Recreation Center and School Playgrounds 4318
Special Sports 4347
Recreational Waterfronts 4370
Tourist Camps 4460
Cemeteries 4480

VEGETATION. CITY PLANTING 4800
Street and Roadside Planting 4875
Lot Planting 4900
Building Decoration. 4910

TYPES OF CITY PLANS

GENERAL 5200
TYPES DISTINGUISHED BY DOMINANT FUNCTION 5300
Capital Cities 5305
War Camp Cities 5311
Industrial Cities 5320
Mining Towns and Labor Camps 5322
Health Resorts 5333
Garden Villages for Disabled Ex-Service Men 5349
Garden Cities 5350
Ideal Types 5550
TYPES DISTINGUISHED BY SIZE 5600

REGIONAL, RURAL, AND NATIONAL PLANNING

Regional Planning 6100

Rural Planning 6300
Land Settlement 6400

State Planning 6500
State Highways 6510
State Forests. 6570
State Parks 6580

National Planning 6600
National Highways 6610
Railroads and Waterways 6620
Conservation of Natural Resources 6640
Reclamation 6650
Power Supply 6660
Water-Supply 6665
National Forests 6670
National Parks 6680

CITY PLANNING

BIBLIOGRAPHY

0 Abercrombie, P. Town planning literature [a brief summary of its present extent]. (*In* Town Planning Institute, London, Papers and discussions, 1915–16; vol. 2, p. 5–21; with discussion p. 22–26.)

Also in Town Planning Review, Oct. 1915; vol. 6, p. 77–100.

Boston Public Library. Catalogue of books relating to architecture, construction and decoration. 2d edition with an additional section on city planning. Boston, 1914. — City planning, p. 427–475, 480.

Check list of references on city planning. Compiled by the Division of Bibliography, Library of Congress, and the Department of Landscape Architecture, Harvard University. p. 61–123. (Special Libraries, May 1912; vol. 3, no. 5, whole number.)

Garden Cities and Town Planning Association. A catalogue of selected books on housing, town planning, and the garden city. [London, The Association, 1919.] 4 p.

Kimball, T. Classified selected list of references on city planning. Boston, National Conference on City Planning, 1915. 48 p.

Should be used in connection with this *Manual of Information* for papers mainly of historic interest and for European publications to 1915 unless of present practical value to American city planners. Cross references to this 1915 list in the present text are made as follows: *see* 1915 *Classified Selected List.*

—— Brief list of references on city planning. (*In* American Institute of Architects, Committee on Town Planning, City planning progress in the United States, 1917, p. 198–201.)

—— *ed.* Municipal accomplishment in city planning and published city plan reports in the United States. Published under the auspices of National Conference on City Planning, 1920. 79 p. Accompanied by flier: Ready references for the shelf of a city plan commission.

The list of published city plan reports supersedes the *American City* list of 1914.

For titles of plan reports since 1920, *see* Kimball Surveys in *Landscape Architecture*, mentioned on p. 24 of this *Manual.*

Munro, W. B. A bibliography of municipal government in the United States. Cambridge, Harvard University Press, 1915. 472 p.

Includes references on city planning, public utilities, sanitation and public health, public safety, education and general betterment, and municipal finance.

Seine (Dépt.) Commission d'Extension de Paris. Documentation bibliographique. I. Inventaire des documents relatifs a l'aménagement et l'extension des villes et conservés au Musée Social. [Paris], 1913. 53 p.

Stübben, J. [Lists appended to sections and chapters.] (*In* his Der Städtebau, 1907. An edition also published in 1915.)

Covers a large number of continental references of historical interest.

Tablettes documentaires municipales; bibliographie analytique des études et informations relatives aux questions municipales. Publication no. 5 de l'Union Internationale des Villes, Bruxelles. 1921 to date. Série 1: Urbanisation.

A digest of current publications and articles on town planning in many languages prepared by the International Centre of Civic Documentation described on p. 23 and in *American City*, Apr. 1922.

Unwin, R. Bibliography. (*In* his Town planning, 1909 and later impressions, p. 405–411.)

See also special bibliographies entered under subjects in this list, e. g. Housing, Zoning.

It is possible to keep up with city planning literature by following the current lists and reviews published in the *American City*, *Municipal Reference Library Notes* (New York), *National Municipal Review*, *Landscape Architecture*, *Engineering News-Record*, *Journal of the American Institute of Architects*, *Housing Betterment*, *Town Planning Review*, *Garden Cities and Town Planning*, *La Vie Urbaine*, *Der Städtebau*, etc.

PERIODICALS

For a list of American periodicals regularly devoting space to city planning, *see* p. 20, noting especially *American City, Landscape Architecture, Housing Betterment, National Municipal Review*, etc. For suggestions as to foreign periodicals *see* p. 26 ff. and the "review of continental periodical literature" in *Garden Cities and Town Planning*, Apr. 1921.

2 The **City Plan.** Published quarterly as the official organ of the National Conference on City Planning. Boston; vol. 1, no. 1, Mar. 1915, to vol. 3, no. 4, Apr. 1918.

No more published. The National Conference on City Planning now has a representative on the editorial board of the *National Municipal Review* and a page of American City Planning Institute Notes in *Landscape Architecture*. *See also* p. 13.

Garden Cities and Town Planning. London, Garden Cities and Town Planning Association; vol. 1, no. 1, Oct. 1904, to date. illus. *Monthly.*

The periodical began as: *The Garden City*, and has been numbered in several series.

Housing. Issued by the British Ministry of Health, Housing Department. London; vol. 1, no. 1, Aug. 2, 1919, to vol. 2, no. 46, June 1921. *Fortnightly.*

No more published. Contained information for municipal officials and those concerned in town planning and housing schemes, with illustrations and plans.

Journal of the Town Planning Institute of Canada. Ottawa, Canada; vol. 1, prelim. no., Oct. 1, 1920, to date. illus. *Bi-monthly.*

Town Planning and Conservation of Life, issued quarterly under the direction of the Commission of Conservation of Canada. Ottawa; vol. 1, no. 1, Aug. 1914, to vol. 7, no. 1, Jan.–Mar. 1921.

Originally entitled, *Conservation of Life*, and issued bi-monthly up to July 1915. No more published. Canadian town planning news is now found in the *Journal of the Town Planning Institute of Canada.*

The **Town Planning Review.** The journal of the Department of Civic Design at the School of Architecture of the University of Liverpool; vol. 1, no. 1, Apr. 1910, to date. illus. *Quarterly.*

4 **La Cité,** revue mensuelle Belge: urbanisme, architecture, art public, reconstruction des régions dévastées. Bruxelles, Librairie Lamertin; vol. 1, no. 1, July 1919, to date. illus. *Monthly.*

La Vie Urbaine; revue publiée sous la direction de Louis Bonnier, Marcel Poëte. Institut d'Histoire, de Géographie, et d'Economie Urbaines de la Ville de Paris. Paris, Editions Ernest Leroux; vol. 1, nos. 1–2, Mar.–June 1919, to date. illus. *Bi-monthly.*

Devoted largely to *urbanisme*, especially in its social and economic aspects. Supplemented by the fortnightly sheet *La Quinzaine Urbaine*, Paris, Union des Villes et Communes de France; no. 1, Jan. 1, 1921, to date.

5 **Der Städtebau.** Montasschrift fur die kunstlerische Ausgestaltung der Städte nach ihren wirtschaftlichen, gesundheitlichen und sozialen Grundsätzen. Berlin, E. Wasmuth; vol. 1, no. 1, Jan. 1904, to date. *Monthly.*

There is a compiled index to vol. 1–10.

SOCIETIES

For further information on Societies, *see* pp. 17, 18, and 26 ff. *See also* Conferences (**40**).

21 **International Garden Cities and Town Planning Association.** [Formation and meeting, Aug. 1913.] (Garden Cities and Town Planning, Sept. 1913; vol. 3, p. 224–226.)

—— Report of conference and annual meeting, London, 1920. 23 p. —— 1922, 27 p.

Reports of other conferences published in *Garden Cities and Town Planning.* Name of Association changed in 1922 to International Garden Cities and Town Planning Federation.

22 **American City Planning Institute.** [Notice of formation.] (*In* Proceedings of 9th National Conference on City Planning, 1917, p. 302–303.)

Also note in City Plan, Aug. 1917; vol. 3, p. 1.

—— [Papers] no. 1. *See* **270, Olmsted.**

The preliminary papers given at the joint conference of the American City Planning Institute and Town Planning Institute of Canada were published, without revision by the Institute, in the *Canadian Engineer*, Oct. 23, 30, Nov. 6, 13, and 20, 1919.

American Park and Outdoor Art Association. [Addresses, proceedings, and reports.] 1897–1904. partly illus.

In 1904 this association and the American League for Civic Improvement united to form the American Civic Association.

National Conference on City Planning, Proceedings:

1st, Washington, 1909, published in Senate Document no. 422, 61st Congress, 2d session.
2d–15th, published by the Conference, 1910–1923.
2d, Rochester, 1910.
3d, Philadelphia, 1911.
4th, Boston, 1912.
5th, Chicago, 1913.
6th, Toronto, 1914.
7th, Detroit, 1915.
8th, Cleveland, 1916.
9th, Kansas City, Mo., 1917.
10th, St. Louis, 1918.
11th, Niagara Falls and Buffalo, 1919.
12th, Cincinnati, 1920.
13th, Pittsburgh, 1921.
14th, Springfield, Mass., 1922.
15th, Baltimore, 1923.

The publications of the American Civic Association, National Municipal League, American Society for Municipal Improvements, American Society of Landscape Architects, American Institute of Architects, Royal Institute of British Architects, American Society of Civil Engineers, Institution of Municipal and County Engineers (British), National Association of Real Estate Boards, American Academy of Political and Social Science, National Housing Association, and others, contain material pertinent to city planning. *See also* p. 17.

25 Garden Cities and Town Planning Association, London. [Reports, etc.]

Founded in 1899 as the Garden City Association. Since 1904 it has published a monthly periodical. *See* **2.**

National Housing and Town Planning Council, London. *See* p. 26.

Town Planning Institute (British). [Notice of formation, membership, etc.] (Town Planning Review, Jan. 1914; vol. 4, p. 329–330.)

—— Papers and discussions, 1914–15 to date. London, The Institute, 1916, to date. illus.

Papers are issued as separates, and superseded by bound volume each year.

—— Register of members, July 1922. (*In* its Papers and discussions, vol. 8, no. 9, p. 154–165.)

Town Planning Institute of Canada. [Notice of formation in 1919, and list of members.] (Journal of the Town Planning Institute of Canada, Oct. 1, 1920; vol. 1, prelim. no., p. 1–2, 10–12.)

28 Société Française des Architectes Urbanistes. [Formation of society, and constitution.] (*In* Agache, Auburtin, and Redont, Comment reconstruire nos cités détruites, 1915, p. 255–257.)

Founded in 1913.

Association pour l'Etude de l'Aménagement et de l'Extension des Villes. [Notice of objects, etc.] (La Quinzaine Urbaine, publiée par l'Union des Villes et Communes de France, sheet in each number.)

Also in La Vie Urbaine, Dec. 1919, inside back cover.

S. U. B. manifeste de la Société des Urbanistes belges. (La Cité, Sept. 1919; vol. 1, no. 3, p. 37–40.)

29 Deutsche Akademie des Städtebaues. [Notice by Dr. Siedler.] (Städtebau, 1921; vol. 18, no. 9–10, p. 106–107.)

Notice of formation *also in* Survey, Apr. 1, 1922; vol. 48, p. 28.

Deutsche Gartenstadt-Gesellschaft, *see* **5350.**

Deutsche Gesellschaft für Städtebau und Landesplanung, Berlin. [Notice of formation, etc.] (Städtebau, 1921; vol. 18, no. 7–8, p. 85.)

CONGRESSES. CONFERENCES. EXHIBITIONS

For a more complete list of references to earlier conferences and exhibitions, interesting as showing the development of public interest in city planning, *see* 1915 *Classified Selected List.*

40 Congrès International de l'Art Public. [Proceedings published in L'Art Public, by Institut International de l'Art Public.]

1st, Brussels, 1898.
2d, Paris, 1900.
3d, Liège, 1905.
4th, Brussels, 1910.

(1907) **Garden City Association,** London. Town planning in theory and practice. A report of a conference arranged by the Garden City Association, held at the Guildhall, London, on October 25th, 1907. London, The Association, [1908]. 72 p. illus., plans.

Congresses. Conferences. Exhibitions (cont.)

(1909) **Garden Cities and Town Planning Association,** London. The practical application of town planning powers; a report of a National town planning conference arranged by the Garden Cities and Town Planning Association, held at the Guildhall, London, on December 10th, 1909. Ed. by Ewart G. Culpin. London, P. S. King & Son, [1910]. 72 p.

(1910) **Royal Institute of British Architects.** Town planning conference [and exhibition], London, 1910. Transactions. London, The Institute, 1911. 812 p. illus., plans.

Notice of the conference may be found in Town Planning Review, Oct. 1910; vol. 1, p. 178–219 which has text of several papers, *and in* Landscape Architecture, Jan. 1911; vol. 1, p. 91–93.

(1910) **Berlin** Allgemeine Städtebau-Ausstellung, 1910. [Notice.] (American City, Sept. 1910; vol. 3, p. 120–124.)

(1910)—— Hegemann, W., *ed.* Der Städtebau nach den Ergebnissen der Allegmeinen Städtebau-Ausstellung in Berlin [1910], nebst einem Anhang: Die Internationale Städtebau-Ausstellung in Düsseldorf. Berlin, E. Wasmuth, 1911, 1913; 2 vol. illus., plans.

Vol. 1, Berlin; vol. 2, Verkehrswesen, Freiflächen; vol. 3, announced before the war as in preparation.

(1912) **Canadian Housing and Town Planning Congress.** The first Canadian housing and town planning congress, Winnipeg, July 15, 16, and 17, 1912. [Proceedings, papers, discussions.] Winnipeg, Canadian Printing and Bookbinding Co., [1912]. 120 p.

(1912) **Kongress für Städtewesen,** Düsseldorf. Verhandlungen des ersten Kongresses für Städtewesen, Düsseldorf, 1912. Bd. 1, Städtebau. Herausgegeben im Auftrage der Stadtverwaltung Düsseldorf, 1913. 320 p. illus., plans.

(1913) **Congrès International et Exposition comparée des Villes,** organisé sous le haut patronage et avec le concours de la Ville de Gand à l'occasion de l'Exposition Universelle en cette ville, 1913, et sous les auspices de l'Union des Villes et Communes belges. Bruxelles, Union Internationale des Villes, [1914]. 233+351+88 p. illus., plans.

I. Construction des villes. II. Organisation de la vie communale.

(1914) **Liverpool Town Planning and Housing Exhibition,** 1914. Transactions of Conference held March 9–13, 1914 . . . ed. by S. D. Adshead and P. Abercrombie. Liverpool, University Press, 1914. 168 p. illus., plans.

(1917–18) **Australian Town Planning Conference and Exhibition.** Official volume of proceedings of the first Australian Town Planning and Housing Conference and Exhibition. Adelaide (South Australia), Oct. 17 to 24, 1917. Adelaide, Published by South Australian Executive, 1918. 162 p. + 74 plates. illus., plans.

—— Proceedings of 2d Conference held at Brisbane, Queensland, July 30 to Aug. 6, 1918. 192 p. illus., plans.

(1919) **New Zealand Town-Planning Conference and Exhibition.** Official volume of proceedings of the first New Zealand Town-Planning Conference and Exhibition, May 20 to 23, 1919. Wellington, Govt. Printer, 1919. 303 p. illus., plans.

(1919) **First Interallied Town Planning Conference,** held in Paris, June 11, 12, & 13, 1919, under the auspices of the Société Française des Urbanistes. [Summary in English of proceedings, by G. B. Ford.] Paris, La Bibliothèque de la Renaissance des Cités, [1919]. 31 p.

(1919) The **International Garden Cities and Town Planning Association Conference** in Brussels on reconstruction. (Garden Cities and Town Planning, Dec. 1919; vol. 9, p. 239–240.)

See also **1293.**

(1920) **Inter-Allied Housing and Town Planning Congress,** London, June 1920. [Papers and reports, published as series of separates. London, National Housing and Town Planning Council.]

(1922) **Manchester and District Joint Town Planning Advisory Committee.** A record of the town planning exhibition held in the Town Hall, Manchester, Oct. 1922, together with Proceedings of the various conferences held in connection with the exhibition. Ed. by P. M. Heath, Town Clerk, Manchester, England. 242 p. + appendices. illus., plans.

Points from the Manchester Conference, 1922. (Garden Cities and Town Planning, Nov. 1922; vol. 12, p. 172–174.)

(1922) **Association Française pour l'Etude de l'Aménagement et de l'Extension des Villes.** [Proceedings of International Conference at Paris, Oct. 21–28, 1922.] *In press.*

Notice in La Quinzaine Urbaine, Dec. 2, 1922; no. 51, p. 402–404.

(1923) **International Cities and Town Planning Exhibition,** Gothenburg, Sweden. [Preliminary announcement, 1923.] 46 p. illus.

50 American City Bureau. [Exhibition described in 1915 *Classified Selected List* was sent abroad.]

Emergency civic exhibition. (Town Planning Review, Jan. 1915; vol. 5, p. 335.)

Geddes, P. Town planning and civic exhibitions. (*In* his Cities in evolution, 1915, p. 246–294. plan, maps.)

(1909) **Robinson, C. M.** The city plan exhibition, New York. (Survey, May 29, 1909; vol. 22, p. 313–318.)

(1911) **Philadelphia.** First municipal city planning exhibition in America, May 15–June 15, 1911. [Handbook.] 77 p. plan.

(1913) **New York's** city planning exhibition. (American City, Dec. 1913; vol. 9, p. 504–511. illus.)

(1913) **Ghent.** Comité d'Etudes du "Village Moderne." Le village moderne à l'Exposition universelle et internationale de Gand, 1913. Notes — comptes rendus — vues et plans. Bruxelles, Goemaere, [1913]. 248 p. illus., plans.

COLLECTED WORKS AND ENCYCLOPEDIAS

180 Städtebauliche Vorträge aus dem Seminar für Städtebau an der K. technischen Hochschule zu Berlin, hrsg. von den Leitern des seminars für Städtebau, J. Brix und F. Genzmer. Berlin, W. Ernst & Sohn, 1908–1920; vol. 1–7, each consisting of 8 parts. vol. 8, 1915, 4 parts. vol. 9, 1920, 8 parts, of which several had been issued by Sept. 1922. Many of these Vorträge contain illustrations and plans.

For detailed contents of vols. 1–7, *see* 1915 *Classified Selected List.*

190 Union Internationale des Villes et Comités Internationaux d'Art Civique "pour la Belgique." Programme-tables des matières d'une Encyclopédie des villes et de l'art civique. Leyde, A. W. Sijthoff, [1915]. 133 p.

Published also as Appendix 2 *in* Swaelmen, L. van der, Préliminaires d'art civique, 1916, p. 167–298.

A complete outline of the proposed contents of the Encyclopedia.

—— Rapport introductif au Gouvernement Belge. Bruxelles, Union Internationale des Villes, [1918]. 14 p.

Official report on the projected monumental Encyclopedia.

BIOGRAPHY

The following references relate to a few of the most important modern practitioners of city planning, not now living. For material on ancient and mediaeval town planners, *see* History.

205 Burnham, Daniel Hudson. **Moore, C.** Daniel H. Burham, architect, planner of cities. Boston, Houghton Mifflin Co., 1921. 2 vols. portraits, plates.

Eliot, Charles. **Eliot, C. W.** Charles Eliot, landscape architect. Boston, Houghton, Mifflin Co., 1902. 770 p. illus., plans.

Haussmann, Baron Georges Eugène. **Smith, E. R.** Baron Haussmann and the topographical transformation of Paris under Napoleon III. (Architectural Record, Aug., Sept., Nov., Dec., 1907, Jan. 1908; vol. 22, p. 121–133, 227–238, 369–385, 491–506, vol. 23, p. 21–38. illus., plans.)

L'Enfant, Major Pierre Charles. [Reports and memorials.] (*In* Records of Columbia Historical Society, Washington, 1899; vol. 2, p. 26–157.)

—— **Jusserand, J. J.** Major l'Enfant and the federal city. (*In* his With Americans of past and present days, 1916, p. 137–195, and his En Amerique jadis et maintenant, 1918, p. 127–192.)

Olmsted, Frederick Law, Sr. **Olmsted, F. L., Jr., and T. Kimball,** *eds.* Frederick Law Olmsted, landscape architect, 1822–1903. Volume 1, Early years and experiences. New York, G. P. Putnam's Sons, 1922. 131 p. plates.

Part I, Biographical notes.

—— **Nolen, J.** Frederick Law Olmsted and his work. (House and Garden, Feb., Mar., July, 1906; vol. 9, p. 73–83, 117–128, vol. 10, p. 3–11. illus., plans.)

Biography (cont.)

ROBINSON, CHARLES MULFORD. **Pray, J. S.** Minute on the life and services of Charles Mulford Robinson, Associate member, prepared for the American Society of Landscape Architects. (Landscape Architecture, July 1919; vol. 9, p. 180–193. portrait.)
Bibliography of writings by Mr. Robinson, p. 189–193.

SITTE, CAMILLO. **Henrici, K.** Camillo Sitte. (Städtebau, Mar. 1904; vol. 1, p. 33–34. portrait.)

WREN, Sir CHRISTOPHER. **Life** and works of Sir Christopher Wren. From the Parentalia or Memoirs by his son Christopher. [London, E. Arnold, 1903.] 259 p. Especially p. 117–121: Proposals for rebuilding the City of London after the Great Fire.

HISTORY

210 Aldridge, H. R. [Historical sketch of town planning.] (*In* his The case for town planning, 1915, Part 1, Chapters 1–5, p. 11–120. illus., plans.)

Brinckmann, A. E. Stadtbaukunst, geschichtliche Querschnitte und neuzeitliche Ziele. Berlin-Neubabelsberg Akademische Verlagsgesellschaft Athenaion, 1920. 138 p. illus., plans.

Cities of the past. (1) The planning of Hellenistic cities, by P. Gardner. (2) Town planning in the Roman world, by F. J. Haverfield. (3) Rome, by T. Ashby. (4) Entwicklung der Städtebau-Ideals seit der Renaissance, by A. E. Brinckmann. Discussion. (*In* Royal Institute of British Architects, Town planning conference, London, 1910, p. 109–183. illus., plans.)

Hughes, T. H., and E. A. J. Lamborn. Towns and town-planning, ancient and modern. Oxford, Clarendon Press, 1923. 156 p. illus., plans.

Triggs, H. I. Types of ancient and modern towns. (*In* his Town planning, 1909, p. 56–119. plans.)

Unwin, R. Of the individuality of towns; with a slight sketch of the ancient art of town planning. (*In* his Town planning, 1909 and later editions, p. 15–114. illus., plans.)

EUROPEAN

Ancient

215 Bosanquet, R. C. Greek and Roman towns. (Town Planning Review, Jan., Oct. 1915; vol. 5, p. 286–293, vol. 6, 101–113. illus., plans.)
1. Streets. 2. Town planning in Syria.

Haverfield, F. J. Ancient town planning. Oxford, Clarendon Press, 1913. 152 p. illus., plans.

See further archaeological works and such treatises as Anderson and Spiers, *The Architecture of Greece and Rome.*

Mediaeval

225 Adshead, S. D. The gridiron plan: Winchelsea. (Town Planning Review, Apr. 1913; vol. 4, p. 44–46. illus., plan.)
The "most perfect example . . . of a mediaeval town laid out on a gridiron plan" in England.

Brinckmann, A. E. Deutsche Stadtbaukunst in der Vergangenheit. Frankfurt a. M., H. Keller, 1911. 160 p. illus., plans.—Also rev. and enl. ed., 1921.

Ebhardt, B. Der Einfluss des Mittelalterlichen Wehrbaues auf den Städtebau. Berlin, W. Ernst & Sohn, 1910. 40 p. illus., plans. (Städtebauliche Vorträge, Bd. 3, Heft 8.)

Sickel, C. Das Stadttor im Stadtbilde. 1912. 63 p. illus., plans. (*Ibid.*, Bd. 5, Heft 2.)

Siedler, E. J. Märkischer Städtebau im Mittelalter. Beiträge zur Geschichte des Entstehung, Planung und baulichen Entwicklung der märkischen Städte. Berlin, J. Springer, 1914. 148 p. illus., plans.

Tout, T. F. Mediaeval town planning; a lecture delivered at the John Rylands Library on the 13th December, 1916. Manchester, The University Press; London, Longmans, Green and Co., 1917. 35 p. plans.
Reprinted from Bulletin of the John Rylands Library, 1917; vol. 4, no. 1. *Also in* Town Planning Review, Apr. 199; vol. 8, p. 7–36.

Zeller, A. Die Auflassung alter Festungswerke. Berlin, W. Ernst & Sohn, 1912. 44 p. illus., plans. (Städtebauliche Vorträge, Bd. 5, Heft 7.)

Modern

230 Abercrombie, P. The era of architectural town planning; a study of certain influences at work during the Renaissance. (Town Planning Review, Oct. 1914; vol. 5, p. 195–213. illus.,plans.)

Brinckmann, A. E. Stadtbaukunst des achtzehnten Jahrhunderts. Berlin, W. Ernst & Sohn, 1914. 76 p. illus., plans. (Städtebauliche Vorträge, Bd. 7, Heft 1.)

Brix, J. Aus der Geschichte des Städtebaues in den letzten 100 Jahren. 1912. 75 p. illus., plans. (*Ibid.*, Bd. 4, Heft 2.)

Features of English towns, a series of 8 articles. (Town Planning Review, April 1912–July 1913; vol. 3–4.)

Include interesting historical facts.

Hammarstrand, N. The plan of Paris. Transformations affecting the central quarters. Esthetic problems connected with these operations. (Journal of the American Institute of Architects, Feb. 1920; vol. 8, p. 67–86. illus., plans.)

Includes history and historical illustrations.

Josephson, R. Stadsbyggnadskonst i Stockholm intill år 1800. Stockholm, Nordiska Bokhandeln, [1918]. 355 p. illus., plans. (At head of title: Samfundet Sankt Erick.)

Shows the influence of other European town planning on the development of Stockholm.

Nuttall, Z. Royal ordinances concerning the laying out of new towns. (Hispanic American Historical Review, Nov. 1921; vol. 4, p. 743–749; Addenda, May 1922; vol. 5, p. 249–254.) *Also reprinted.*

Ordinances issued by King Philip II of Spain, 1573, for towns in New World.

Olmsted, F. L., Jr. The scope and results of city planning in Europe. (*In* U. S. 61st Congress, Senate Document 422, City planning, 1909, p. 63–70.)

Stübben, J. Vom französischen Städtebau. Berlin, W. Ernst & Sohn, 1915. [2 parts.] illus., plans. (Städtebauliche Vorträge, Bd. 8, Heften 2 and 3.)

L'urbanisme au XVIII[e] siècle, les idées du Marquis de Tourny; with plan of Le Bordeaux de Tourny. (La Vie Urbaine, Feb. 15, 1921; vol. 3, p. 47–63.)

ORIENTAL

235 Borrmann, R. Vom Städtebau im islamischen Osten. Berlin, W. Ernst & Sohn, 1914. 32 p. illus., plans. (Städtebauliche Vorträge, Bd. 7, Heft 2).

Venkatarama Ayyar, C. P. Town planning in ancient Dekkan; with an introduction by Patrick Geddes. Madras, Printed at the Law Printing House, [1916]. 199 p.

AMERICAN

240 Howe, O. M. Early town planning in New England. (American Architect, Oct. 13, 1920; vol. 18, p. 464–469. illus.)

Olmsted, F. L., Jr. The town planning movement in America. (*In* American Academy of Political and Social Science, Housing and town planning, 1914, p. 172–181.)

Shurtleff, F. Six years of city planning in the United States. (*In* Proceedings of 7th National Conference on City Planning, 1915, p. 33–41.)

Waugh, F. A. A comparison of town plans. (Landscape Architecture, July 1921; vol. 11, p. 161–166. plans. Editorial, p. 203.)

On New England.

The history of city planning in the last twenty-five years may be traced in the congresses and exhibitions, *see* **40** ff. For current information as to conditions in various countries, *see* p. 26 ff.

GENERAL WORKS

250 Aldridge, H. R. The case for town planning. A practical manual for the use of councillors, officers, and others engaged in the preparation of town planning schemes, with an appendix by Frank M. Elgood and Edmund R. Abbott. London, The National Housing and Town Planning Council, [1916]. 679 p. illus., plans.

Prepared for use in Great Britain. *See also* **210, 812.2.**

Cadbury, G., Jr. Town planning, with special reference to the Birmingham schemes. London, Longmans, Green & Co., 1915. 201 p. illus., plans.

Evans, F. N. Town improvement. New York, D. Appleton & Co., 1919. 261 p. illus.

Written to stimulate popular interest. Since it practically omits zoning, it should be supplemented by the *Zoning Primer*, **1600.**

General Works (cont.)

Hegemann, W., and E. Peets, *see* **3455.**

Lewis, N. P. The planning of the modern city; a review of the principles governing city planning. With the assistance of H. M. Lewis. 2d rev. ed. New York, John Wiley & Sons, 1923. 457 p. illus., plans. — First ed., 1916.

Mawson, T. H. Civic art; studies in town planning, parks, boulevards and open spaces. London, B. T. Batsford, 1911. 375 p. illus., plans.

Nolen, J. New ideals in the planning of cities, towns, and villages. New York, American City Bureau, 1919. 138 p. illus.

A popular introduction to the subject.

Purdom, C. B., *ed.* Town theory and practice. *See* **5350.**

Robinson, C. M. City planning, with special reference to the planning of streets and lots. New York, G. P. Putnam's Sons, 1916. 344 p. illus., plans.

—— The improvement of towns and cities; or, The practical basis of civic aesthetics. New York, G. P. Putnam's Sons. 4th rev. ed., 1913, reprinted 1922. 313 p. — First ed., 1901.

Page references to body of text hold good for all editions.

—— Modern civic art; or, The city made beautiful . New York, G. P. Putnam's Sons, 1903. 381 p. illus. — 4th ed., 1918.

Page references hold good.

Triggs, H. I. Town planning, past, present and possible. London, Methuen & Co., [1909]. 334 p. illus., plans.

Unwin, R. Town planning in practice; an introduction to the art of designing cities and suburbs. London, T. F. Unwin, 1909. 416 p. illus., plans.

Subsequent impressions (6th, 1919) have revised introduction. Page references hold good for all editions.

Also translated into German, 1910.

General Works in Foreign Languages

250 Baumeister, R. Stadt-Erweiterungen in technischer, baupolizeilicher und wirthschaftlicher Beziehung. Berlin, Ernst & Korn, 1876. 492 p.

The historic early work, especially known for its theory of zoning.

Fockema-Andreae, J. P. De Hedendaagsche Stedenbouw. Utrecht, H. de Vroede, 1912. 106 p. + plates.

Ford, G. B. L'urbanisme en pratique, précis de l'urbanisme dans toute son extension pratique comparée en Amérique et en Europe. Paris, Ernest Leroux, 1920. 196 p. plans. (Collection "Urbanisme," Série C.)

Gurlitt, C. Handbuch des Städtebaues. Berlin, Der Zirkel, Architekturverlag, 1920. 464 p. plans, sections.

Kataoka, Y. [Investigation of modern cities. Tokyo, Architecture and Technology Association, 1917.] 458 p. illus., plans.

Text in Japanese. A summary of city planning in Japan, Europe, and the United States.

Schultze-Naumburg, P. Städtebau. 2. verm. Auflage. München, G. D. W. Callwey, 1909. 481 p. illus., plans. (Kulturarbeiten, Bd. 4.)

Of especial interest for its pictures showing contrasts of types and "before-and-afters."

Sitte, C. Der Städtebau nach seinen Künstlerischen Grundsätzen. Ein Beitrag zur Lösung moderner Fragen der Architektur und monumentalen Plastik unter besonderer Beziehung auf Wien. 4. Aufl. vermehrt um. "Grossstadtgrün." Wien, K. Graeser & Kie, 1909. 216 p. illus., plans. — First ed., 1889.

Translated as

—— L'art de batir les villes. Notes et réflexions d'un architecte, traduites et complétées par C. Martin. Paris, Librairie Renouard, [1902]. 196 p. illus., plans.

Latest French translation published in Switzerland, 1918.

Stübben, J. Der Städtebau. 2. Aufl. Stuttgart, Alfred Kroner, 1907. 652 p. illus., plans. (Handbuch der Architektur, 4. Teil, 9. Hlbd.) — First ed., 1890.

A later edition has been published, 1915.

Swaelmen, L. van der. Préliminaires d'art civique, mis en relation avec le "Cas Clinique" de la Belgique. Leyde, A. W. Sijthoff, 1916. 299 p. plans, diagr.

Outlines

254 Pray, J. S., and T. Kimball. City planning; a comprehensive analysis of the subject arranged for the classification of books, plans, photographs, notes, and other collected material, with alphabetic subject index. Cambridge, Harvard University Press, 1913. 103 p.

The outline used for arranging the bibliography in this *Manual.*

Union Internationale des Villes, *see* **190,** for elaborate outline of city planning published as preliminary announcement of the Encyclopédie.

Collected Papers

See also **40**

265 American Academy of Political and Social Science. Housing and town planning. Philadelphia, The Academy, 1914. 296 p. (Annals, vol. 51.)

A group of papers by specialists.

Nolen, J., *ed.* City planning; a series of papers presenting the essential elements of a city plan. New York, D. Appleton & Co., 1916. 447 p. illus., plans. (National Municipal League Series.)

Seventeen essays by Messrs. Olmsted, Nolen, Williams, Bouton, Bennett, Comey, Goodrich, A. A. Shurtleff, Saville, Wadsworth, Haldeman, Davies, G. B. Ford, J. Ford, F. Shurtleff, Robinson, and McFarland, with a brief biographical sketch of each. Bibliographies accompany each essay.

Brief General Papers

See also p. 3 of this *Manual*

270 Adams, T. Some town planning principles restated. (American City, Mar. 1915; vol. 12, p. 213–216.)

Adshead, S. D. An introduction to civic design. (Town Planning Review, April 1910; vol. 1, p. 3–17.)

Bartholomew, H. The principles of city planning. (American City, May 1922; vol.26, p. 457–461. illus.)

From first annual report of Memphis City Planning Commission.

Bushnell, H. City plans. (*In* his Work and play, New York, C. Scribner, 1864, p. 308–336.)

Eldridge, T. B. What city planning means to Raleigh. (American City, Aug. 1922; vol. 27, p. 143–145. plans.)

From pamphlet issued by City of Raleigh, Jan. 1922.

Eliot, C. W. The indispensableness of city planning. (American City, Sept. 1909; vol. 1, p. 25–26.)

Hoover, Herbert. [Address on need for city planning.] (*In* Plan of New York and its Environs, Russell Sage Foundation, Meeting of May 10, 1922, p. 13–14.)

Knowles, M. Setting up a city plan program. (*In* 7th Yearbook of City Managers' Association, 1921, p. 112–121.)

A brief statement of the subject matter of city planning work.

Lewis, N. P. The city plan defined by a municipal engineer. (*In* Proceedings of 7th National Conference on City Planning, 1915, p. 1–12.)

Olmsted, F. L., Sr., *see* **2050.**

Olmsted, F. L., Jr. City planning. (*In* Nolen, J., *ed.*, City planning, 1916, p. 1–18.)

This should be used in preference to his Introductory address on city planning, 1910.

Root, Elihu. [Address on need for city planning.] (*In* Plan of New York and its Environs, Russell Sage Foundation, Meeting of May 10, 1922, p. 18–23.)

Unwin, R. What is town planning?; an extract from a lecture. (Garden Cities and Town Planning, Jan. 1912; N.S. vol. 2, p. 11–15.)

Waterhouse, P. The problem of the development of cities. (Journal of the Royal Institute of British Architects, Nov. 1918; vol. 26, p. 9–12. diagr.)

Wetherell, F. E. Town planning. Issued by Iowa Town Planning Association. [1922.] *Mimeographed.* 22 p.

300 Adams, T. Town planning terms: the use of the word "zoning." (Garden Cities and Town Planning, Aug. 1921; vol. 11, p. 183–184. diagr.)

Also in American City, Sept. 1921; vol. 25, p. 213.

310 Lasker, B. What constitutes a city plan? Summary statement . . . embodying the essential principles of city planning. (Survey, Feb. 19, 1921; vol. 45, p. 734.)

Lewis, N. P. [Definitions of city planning and] Elements of a city plan. (*In* his Planning of the modern city, 1916 and 1923, p. 9–11, 44–53.)

Olmsted, F. L., Jr. Principles of city planning: introductory statement. Boston, 1920. (American City Planning Institute Papers no. 1.)

Also in Landscape Architecture, July 1920; vol. 10, p. 172–174.

General Works (cont.)

Stein, C. S. Community planning and housing: recommendations of the American Institute of Architects. (Journal of the American Institute of Architects, Dec. 1921; vol. 9, p. 399–400.)

322 Kimball, T. Personality and human beings in town-planning work. (American City, June 1920; vol. 22, p. 609.)

CITY PLANNING MOVEMENT

For Societies, Conferences, Congresses, and Exhibitions, *see* **21** ff.

500 Gale, Z. Civic improvement in the little towns. Washington, Mar. 1913. 28 p. (American Civic Association Department of city making. Series II, no. 7.)

James, H. Where to begin in town improvement. (National Municipal Review, May 1921; vol. 10, p. 274–277.)

On garden and street tree planting as leading to interest in larger civic improvements.

Lewis, N. P. Sequence of operations in city planning work. (*In* Proceedings of 13th National Conference on City Planning, 1921, p. 1–5.)

Nolen, J. Getting action in city planning. (*In* Proceedings of 13th National Conference on City Planning, 1921, p. 162–175.)

A very useful summary.

Olmsted, F. L. How to organize a city planning campaign. (American City, Oct. 1913; vol. 9, p. 303–309.)

Robinson, C. M. Work of individuals and societies. (*In* his Improvement of towns and cities, 1913, etc., p. 253–270.)

Wacker, C. H. Gaining public support for a city planning movement. (*In* Proceedings of 5th National Conference City Planning, 1913, p. 222–243.)

Waugh, F. A. Improvement programs; Organization and management. (*In* his Rural improvement, 1914, p. 224–259. illus.)

510 Farwell, P. T. A typical village improvement society; Other improvement societies. (*In* his Village improvement, 1913, p. 13–58. illus.)

513 Abercrombie, P. A civic society; an outline of its scope, formation and functions. (Town Planning Review, Apr. 1920; vol. 8, p. 79–92.)

Hiett, I. B. Realtors are community builders, President's address before Executive Committee, National Association of Real Estate Boards. (National Real Estate Journal, Mar. 27, 1922; vol. 23, no. 7, p. 24–25.)

Jones, H. V. Resumé of activities of committee on city planning, National Association of Real Estate Boards; remarkable progress in city planning and zoning. (National Real Estate Journal, May 8, 1922; vol. 23, no. 10, p. 39–40.)

515 Clay, S. H. City building. A citation of methods in use in more than one hundred cities for the solution of important problems in the progressive growth of the American municipality. Cincinnati, Clark Publishing Co., 1913. 164 p.

Ford, G. B. Chambers of commerce and city planning. (American City, May 1914; vol. 10, p. 448–449.)

Goodwin, E. H. Chambers of commerce and city planning. (*In* Proceedings of 13th National Conference on City Planning, 1921, p. 187–194.)

Kinsloe, J. R. A city plan and how to get it; the secretary's part. La Crosse, Wisconsin Association of Commercial Secretaries, 1919. 11 p.

EDUCATIONAL AND PUBLICITY CAMPAIGNS

For information on lantern slides for city planning lectures, *see* p. 38.

540 Ball, C. B. The promotion of zoning in Chicago. (American City, Jan. 1923; vol. 28, p. 11–14. illus.)

Bartholomew, H. Publicity and the city plan. (American City, Nov. 1914; vol. 11, p. 380–382.)

In Newark, N. J.

Brainerd, H. B. Effective publicity aids Cleveland city plan. (American City, Aug. 1921; vol. 25, p. 127–128. illus.)

Buettner, L. J. Making the city plan effective. (American City, Apr. 1922; vol. 26, p. 323–326. illus.)

Based on his experience in Johnstown, Pa.

Kimball, T. Helps in conducting publicity campaigns for zoning. (Landscape Architecture, July 1922; vol. 12, p. 274–277.) *Also preprinted.*

A revision of this may be found on p. 33.

Kingsley, S. C. Methods of winning public support for a city planning program. (*In* Proceedings of 14th National Conference on City Planning, 1922, p. 174–181.)

MacNeille, P. R. The campaign for a civic center in Summit, N. J. (American City, Oct. 1922; vol. 27, p. 350–352. plan, diagr.)

Madison, C. I. Introducing the community (Boulder, Colo.) to the citizens. (American City, Mar. 1922; vol. 26, p. 241–242. illus.)

Moody, W. D. What of the city? America's greatest issue — City planning what it is and how to go about it to achieve success. Chicago, A. C. McClurg & Co., 1919. 441 p. illus., plans.

The first extensive treatise on the "promotion" of city plans, giving fully the experience of Chicago.

Popularizing the city planning principle. Discussion. (*In* Proceedings of 4th National Conference on City Planning, 1912, p. 168–172.)

Robinson, C. M. Popular education in art. (*In* his Improvement of towns and cities, 1913, etc., p. 237–252.)

Schaaf, A. H. A state campaign for city planning. (*In* Proceedings of 9th National Conference on City Planning, 1917, p. 133–138.)

The campaign in Indiana, led by real estate men.

Woodward, S. Methods of winning public support for a city planning program. (*In* Proceedings of 14th National Conference on City Planning, 1922, p. 182–185.)

The experience of Worcester, Mass.

The educational campaigns conducted in Chicago, Pittsburgh, Cleveland, Baltimore, Johnstown, Buffalo, St. Louis, and Dallas might be especially mentioned; also the statewide work of the Ohio State Conference on City Planning, Iowa Town Planning Association, Massachusetts Federation of Planning Boards, and Chicago Real Estate Association in Illinois, 1921. The national campaign conducted by the Canadian Commission of Conservation (*see* **2**) resulted in the formation of provincial and local organizations to promote town planning, such as the Ontario Town Planning Association, etc. The propaganda work of the Garden Cities and Town Planning Association, London, is described in its monthly magazine, *see* **2.**

543 Film on zoning wins wide-spread approval. (American City, Jan. 1923; vol. 28, p. 60.)

See also p. 38.

National Conference on City Planning. The use of moving pictures in city planning — Committee report by E. H. Bennett, L. Veiller, H. S. Swan. (*In* its 13th Proceedings, 1921, p. 183–186.)

New York (City) Municipal Reference Library. Visualizing citizenship [study of motion pictures from a civic standpoint] by Ina Clement. New York, 1920. (Supplement, Part II, to Municipal Reference Library Notes, June 23, 1920, p. 283–309.)

The Chicago Plan Commission's film "Tale of One City" is described in **Moody,** *see* **540.**

544 Buffalo City Planning Association. Bulletins. 1922. illus., plans.

Part of an intensive educational campaign. An account of the work of the Association is given in paper by C. J. Hamlin in Proceedings of National Conference on City Planning, 1922.

Citizens Committee on City Plan of Pittsburgh, organized to promote city planning in the Pittsburgh district. [Publications including monthly magazine *Progress*, fliers, etc., 1919 to date.]

City planning tabloids — Boston Chamber of Commerce campaign. (American City, Feb. 1914; vol. 10, p. 166.)

Cleveland City Plan Commission. [Reports and fliers.] 1919–21.

Of especial interest for their illustrations and popular appeal.

Flint, K. R. B. Town planning; a program of civic preparedness for Vermont communities. Norwich University Record, Feb. 8, 1919; vol. X, no. 19. [Northfield, Vt.] 70 p. (Norwich University studies, Political Science Series, no. 2.)

An educational bulletin which various state officials concerned in questions of rural and town planning helped to prepare.

Grinnalds, J. C. [Series of articles on city planning and zoning.] (Municipal Journal, Baltimore, 1920 to date.)

Wacker, C. H. An appeal to business men; Provide work now for the unemployed; Relation of national prosperity to city planning; Business and the Chicago plan. Chicago, The Plan Commission, [1921]. 17 p.

Educational and Publicity Campaigns (cont.)

546 An effective exhibition of a community survey — Springfield, Ill. (American City, Feb. 1915; vol. 12, p. 95–100. illus.)

See also **50.**

Extension work in landscape architecture — a symposium. (Landscape Architecture, Jan. 1922; vol. 12, p. 61–94.)

Summarizes work of a number of public agencies for civic improvement.

548 Ackerman, F. L. City planning in schools; from address, "The architectural side of city planning," delivered at National Conference on City Planning, 1915. (Real Estate Magazine, Oct. 1915; vol. 6, p. 92–94.)

Beck, M. L. City planning; Garden cities. (*In* her Better citizenship through art training Chicago, A. C. McClurg & Co., 1921, p. 13–33.)

Intended as a syllabus for high schools or study clubs.

Buettner, L. J., *see* **540.**

Hughes, R. O. The planning of the community. (*In* his Community civics, Boston, Allyn and Bacon, 1917, p. 28–71. illus., plan.)

James, H. The building of cities. New York, Macmillan Co., 1917. 201 p. illus. (Everychild's Series.)

Conversational text for class-room use.

Moody, W. D. Wacker's manual of the plan of Chicago; municipal economy. Especially prepared for study in the public schools of Chicago, auspices of the Chicago Plan Commission [Chicago, Printed by H. C. Sherman], 1912. 147 p. illus., plans. — 2d rev. ed., 1916.

Accompanied by Teachers' Hand-book, 110 p.

New York (City) Board of Education. Syllabus for high schools: first year civics. Adopted by the Board of Superintendents, June 1919. City planning, p. 38–40; Civic beauty, p. 41–44.

—— Tentative syllabus for high schools: Civic activities. Adopted Sept. 14, 1922. City planning, p. 29; Civic beauty, p. 30.

Newark, N. J., Board of Education. [Municipal civic leaflets.] Issued for the study of Newark in the schools of Newark, N. J. No. 23, City planning, 1912, 6 p.

Nolen, J. The planning of cities, towns and villages; outlines of lectures. U. S. Army Educational Commission, Dept. of Citizenship, Bureau of Housing and Community Planning, 1919. 10 p.

See also **Nolen,** New Ideals, **250.**

Taylor, C. K. How would you plan a city? (St. Nicholas, Aug. 1920; vol. 47, p. 917–919. plans.)

The results of a class study of city planning told for children.

LEGISLATION

Laws and Court Decisions

700 Williams, F. B. The law of city planning and zoning. New York, Macmillan Co., 1922. 738 p. (The Citizen's Library of Economics, Politics and Sociology — New Series. Edited by R. T. Ely.)

The authoritative comprehensive treatise on the subject. Contains bibliography and tables of statutes. Main contents:

Planning the city as a whole.— Planning the public features, including excess condemnation, zone condemnation, and replotting. Public utilities, the waterfront, streets, setbacks, and traffic regulations.— Planning the private features (zoning).— City planning finance. — Planning for the promotion of beauty. — Planning administration.

The subjects covered in this book will be kept up to date by Mr. Williams's monthly column in the *American City* from June 1923.

Adams, T. Need for a constructive policy in regard to town planning. (City Plan, June 1915; vol. 1, no. 2, p. 2–6.)

Discusses the type of legislation desirable.

—— The need of town-planning legislation and procedure for control of land as a factor in house-building development. (Journal of the American Institute of Architects, Feb., Mar. 1918; vol. 6, p. 68–70, 135–137.)

Aldridge, H. R. Compulsory town planning; paper read before the Town Planning Institute. (Garden Cities and Town Planning, Feb. 1916; vol. 6, p. 25–32.)

Bassett, E. M. Constitutional limitations on city planning powers. (*In* Proceedings of 9th National Conference on City Planning, 1917, p. 199–214; with discussion, p. 214–227.) *Also reprinted* as Bulletin no. 10 of the Conference.

Chandler, H. P. The attitude of the law toward beauty. *See* **1235.**

The **legal** aspects of city planning; including discussion and paper by A. W. Crawford: Certain principles of a uniform city planning code. (*In* Proceedings of 3d National Conference on City Planning, 1911, p. 229–260.)

McBain, H. L. American city progress and the law. New York, Columbia University, 1918. 269 p.

Intended to show how the law as it stands facilitates or obstructs cities in applying new policies to existing problems. Several chapters relate to the field of city planning.

Massachusetts Federation of Planning Boards. Massachusetts city and town planning law. 48 p. (Bulletin no. 9, Aug. 1921.)

An excellent example of a convenient compilation of laws of a given state for the use of its local planning boards.

National Conference on City Planning. Report of the Committee on Legislation. (*In* its 5th Proceedings, 1913, p. 247–259.)

Drafts of recommended acts. *See also* earlier discussion at 1912 Conference, **770.**

Shurtleff, F., and F. L. Olmsted, Jr. Carrying out the city plan; the practical application of American law in the execution of city plans. New York, Survey Associates, 1914. 349 p. (Russell Sage Foundation Publications.)

Singapore Improvement Trust. Legislation Committee, Town Planning and Housing, etc. Memorandum by the Deputy-Chairman on legislative powers and methods of some other countries. Singapore, [1921]. 32 p.

Williams, F. B. The law of the city plan. rev. ed. New York National Municipal League, 1922. 39 p. (Technical Pamphlet Series no. 8.) — First ed., 1920.

See also **824, 1505.**

CREATIVE

General Planning Laws

The general acts of Italy, Sweden, Germany, England, France, and the provinces of Canada are discussed in Mr. Williams's book.

707 Bombay. Mirams, A. E. Town planning in Bombay under the Bombay Town Planning Act, 1915. (*In* Town Planning Institute, London, Papers and discussions, 1919–20; vol. 6, p. 43–56; with discussion, p. 57–63. illus.)

France. Laws. Town planning and reparation of damages caused by the events of the war. New York, National Civic Federation, 1919. 51 p.

Translation by Roscoe Pound, Dean, Harvard Law School. The law is discussed by F. B. Williams in the *National Municipal Review*, Oct. 1919.

Great Britain. Housing, town planning, etc., act, Oct. 1919. London. H. M. Stationery Office, 1919. 44 p.

A manual of the act will be found in H. C. Dowdall's *Local Development Law* (London, T. F. Unwin, 1919. 230 p.). The law is discussed by F. B. Williams in *American City*, Apr. 1920.

The new regulations and the future of town planning; summary of town planning regulations, 1921. (Housing, Apr. 1921; vol. 2, p. 254, 260–262.)

Holland. Hudig, D. Dutch housing legislation. Amsterdam, Nederlandsch Instituut voor Volkshuisvesting, [1920]. 16 p.

Regulation of town planning, p. 8–11.

Saskatchewan. Dept. of Municipal Affairs. Model form of development by law, prepared by the Town Planning and Rural Development Branch, adapted for an urban area of 5000 population and over. Regina, Sask., [1921]. 24 p.

Includes provisions for zoning law, platting regulations, etc.

South Australia. Reade, C. C. Planning and development of towns and cities in South Australia; report by the government town planner . . . upon existing conditions and defects and the need for town planning legislation relating thereto in conformity with the provisions of the town planning and development bill, 1919. Adelaide, Govt. Printer, 1919. 48 p.

See further retrospective article by Mr. Reade, Town planning legislation in South Australia, *in* Town Planning Review, Dec. 1921; vol. 9, p. 157–161.

Creation of City Planning Agencies

714 Baker, M. N. City planning; model city charter. *See* **1535.**

Ford, F. L. The commission on the city plan at Hartford, Connecticut — Charter amendment. (*In* Proceedings of 2d National Conference on City Planning, 1910, p. 172–174.)

Creation of City Planning Agencies (cont.)

An **ordinance** creating a planning board; Form of by-law for towns. (*In* Annual report of Massachusetts Division of Housing and Town Planning, 1921, p. 45–47.)

Plan commission legislation. (City plan, Jan. 1916; vol. 1, no. 4, p. 9–13.)

Williams, *see* **700.** *See also* his provision for city planning and zoning commission powers in the proposed charter for Nassau County, N. Y.

See also **1535.**

Acquisition of Public Property Condemnation

722 Illinois. Legislative Reference Bureau. Eminent domain and excess condemnation. [Springfield, Ill., 1919.] p. 455–515. (Constitutional Convention Bulletin no. 7.)

Great Britain. Ministry of Reconstruction. Committee dealing with law and practice relating to the acquisition and valuation of land for public purposes. Reports 1–4. London, H. M. Stationery Office, 1918–19. [Cd. 8998, 9229] [Cmd. 156, 424].

Massachusetts. [Report of Committee on Eminent Domain, Dec. 29, 1903.] 101 p. (House Legislative Document no. 288.)

Contains reports on English and French methods.

—— Supplementary report of the tax commissioner, attorney-general, and chairman of the Homestead Commission relative to uniform methods and procedure for taking land for public purposes. Boston, State Printers, 1916. 78 p. (House Document no. 1750.)

Includes the special commission report (House Document no. 1851 of 1915), to which this is supplementary. Discusses current American practice, with reference to town planning needs.

Shurtleff and Olmsted, *see* **700.**

See also **1570.**

Excess Condemnation and Replotting

724 Chicago Bureau of Public Efficiency. Excess condemnation. [Chicago, The Bureau, 1918?] 58 p. plans.

Reviewed by H. S. Swan *in* National Municipal Review, Mar. 1919; vol. 8. p. 174–175.

Crawford, A. W. Excess condemnation and public use. (*In* Proceedings of 2d National Conference on City Planning, 1910, p. 155–163.)

Condensed in American City, Nov. 1910; vol. 3, p. 224–226.

Cushman, R. E. Excess condemnation. New York, D. Appleton & Co., 1917. 323 p. (National Municipal League Series.)

Gives text of American statutes and constitutional provisions. Contains bibliography.

Detroit City Plan Commission. Excess condemnation, a few facts in support of proposed constitutional amendment approved by Common Council of Detroit, Mar. 8, 1919. Detroit, The Commission, Mar. 1919. [8 p.]

New York (City). Excess condemnation: a report of the Committee on Taxation, with a report prepared by H. S. Swan for the National Municipal League. New York, 1915. 122 p.

A **review** of the movement for excess condemnation for public improvements. (Engineering and Contracting, Oct. 2, 1918; vol. 50, p. 324–326.)

Swan, H. S. Excess condemnation in street improvements. (American City, Mar. 1916; vol. 14, p. 258–262. illus., plans.)

Summary of report for National Municipal League.

Tiefenthaler, L. Milwaukee embarks on street-widening program. (American City, Aug. 1922; vol. 27, p. 163.)

Excess condemnation to be employed.

Williams, *see* **700,** first reference.

728 Baumeister, R., J. Classen, and J. Stübben. Die Umlegung städtischer Grundstücke und die Zonenenteignung. Berlin, E. Toeche, 1897. 152 p. illus., plans.

Marsh, B. C. Land policy in Frankfort-on-the-Main. (*In* his An introduction to city planning, 1909, p. 52–58.)

"Lex Adickes."

Williams, on zone condemnation and replotting, *see* **700,** first reference.

See also **1293** and **1703.**

REGULATIVE

760 Shurtleff, F., and F. L. Olmsted. Use of the police power in the execution of a city plan. (*In* their Carrying out the city plan, 1914, p. 138–167.)

Williams, F. B. Public control of private real estate. (*In* Nolen, J., *ed.*, City planning, 1916, p. 48–87.)

Zoning Legislation

765 Bassett, E. M. The Board of Appeals in zoning. Published by Zoning Committee of New York, [1921]. 25 p.

Full statement of origin, operation, and advantages of such a board.

Summary in American City, Jan. 1922; vol. 26, p. 50–51.

—— Zoning, National Municipal League pamphlet. *See* **1600.**

—— Interim zoning. (American City, March 1922; vol. 26, p. 238.)

An impartial statement of its dangers and possibilities.

—— "Zoning" that was not zoning. (Housing Betterment, Nov. 1922; vol. 11, p. 387–388.)

Shows dangers of piecemeal zoning.

—— Present attitude of courts towards zoning. Paper read at 15th National Conference on City Planning, May 1, 1923. *To be printed separately in advance of Conference Proceedings.*

A most important discussion of the relation of state enabling acts to court decisions.

Bettman, A. The constitutionality of zoning. (American City, Sept. 1922; vol. 27, p. 212–216.)

—— Recent court decisions on zoning. (*In* Proceedings of 12th National Conference on City Planning, 1920, p. 148–153.)

Contains humorous account of the western corral decision, repeated by A. W. Crawford in *Civic Comment* (American Civic Association), Sept. 20, 1920, as "zoning and jaw-distended mules."

Cheney, C. H. Procedure for zoning or districting of cities. San Francisco, Sept. 1917. 15 p. plans. (California Conference on City Planning, Bulletin no 2.)

Prepared for the use of California cities.

Crawford, A. W. Prevention of billboards in residential districts. Zoning and billboards. (*In* his The billboard nuisance, American Civic Association pamphlet, Series II, no. 13, rev. 1920, p. 15–20.)

Davis, E. H., *comp.* Zoning. [38 p.] plans. (St. Louis Public Library Monthly Bulletin, July 1917, N.S. vol. 15, no. 7.)

A compilation showing the advance of the movement in the United States, mainly of historical interest.

Haldeman, B. A. The control of municipal development by the "Zone system" and its application in the United States. (*In* Proceedings of 4th National Conference on City Planning, 1912, p. 173–188; with discussion, p. 188–191.)

Condensed in American City, Sept. 1912; vol. 7, p. 222–225. plan.

McBain, H. L. Law-making by property owners. Shall the exercise of the police power be made to depend on property owners? (Political Science Quarterly, Dec. 1921; vol. 36, p. 617–641.)

Includes a discussion of the validity of clauses in zoning ordinances requiring the consent of property owners.

Merrill, E. A. The legal view of zoning. (Philadelphia Realtor's News, Jan. 1922; vol. 3, p. 5–6.)

Legal objections and tests of a good ordinance.

Newman, B. J. Zoning and nuisances in Philadelphia. (Housing Betterment, Nov. 1922; vol. 11, p. 401–403.)

Swan, H. S. The law of zoning; a review of the constitutionality of zoning regulations which control buildings in accordance with a general plan of municipal development. Supplement to National Municipal Review, Oct. 1921; vol. 10, p. 519–536. (Technical Pamphlet Series, no. 11.)

Court decisions, grouped according to the different phases of zoning.

—— The non-conforming building in zoning. (American Architect, Nov. 13, 1918; vol 114, p. 592–594.)

U. S. Dept. of Commerce. A standard state zoning enabling act, under which municipalities can adopt zoning regulations. rev. ed., Jan. 1923. *Mimeographed.* 16 p.

Prepared by Secretary Hoover's Advisory Committee on Zoning.

Veiller, L. Zoning. (*In* his A model housing law, published by Russell Sage Foundation, New York, rev. ed., 1920, p. 375–381.)

Legislation suggested in connection with the housing law.

Whitten, R. H. The zoning of apartment and tenement houses, an important legal decision (East Cleveland) which will help to preserve our American cities as cities of homes. (American City, August 1920; vol. 23, p. 140–142.)

—— Regional zoning. *See* **6100.**

Zoning Legislation (cont.)

Williams, F. B. Planning the private features. — Building regulation and zoning. (*In* his Law of city planning and zoning, 1922, p. 191–355.)

See also **1600** ff.

Platting Legislation

770 Bostwick, A. L. Municipal control of street planning. (Municipal Journal, New York, July 29, 1915; vol. 39, p. 145–147.)

A comprehensive survey of laws relative to platting in the United States and Canadian provinces to 1915.

Crawford, A. W. How to secure power to prevent building within the lines of platted streets. (City Plan, Jan. 1917; vol. 2, no. 4, p. 8–9.)

Fisher, C. F. Replatting a city area. Property owners and city authorities unite to vacate and replat a section of Portland, Ore.— Terms of agreement. — Legal procedure. (Municipal Journal, New York, June 29, 1916; vol. 40, p. 892–893. plans.)

Done by voluntary agreement.

The **legislation** necessary for intelligent city planning. (*In* Proceeding of 4th National Conference on City Planning, 1912, p. 138–151.)

Deals largely with municipal control of platting.

National Conference on City Planning. Enforcing an official city plan for streets as a police power regulation. Boston, 1922. [8 p.] (Bulletin no. 2, series 1922, i.e. bulletin no. 17 of the Conference.)

Comments on Windsor, Conn., court decision.

New York (State). An act to amend the Greater New York Charter, in relation to the official map and plan, to prevent buildings in streets shown on such map and plan, and to empower the board of appeals to grant building permits in certain cases. (No. 2178, Int. 1827. In Senate, Apr. 17, 1923.)

An important example of a practical method.

Whitten, R. H. Erection of buildings within the lines of proposed streets laid down on the final map of the City of New York. New York, Board of Estimate and Apportionment, Committee on the City Plan, 1917. 7 p. map.

Williams, F. B. Enforcing the city plan. (National Municipal Review, July 1921; vol. 10, p. 374–377.) *Also reprinted* as Bulletin no. 16 of National Conference on City Planning.

Among cities which have published platting regulations may be noted: New York City, Rochester, and Syracuse, N. Y.; Haverhill, New Bedford, and Revere, Mass.; Akron, Cleveland, Toledo, and Hamilton, O.; Indianapolis; Baltimore, Md.; Detroit, Mich.; St. Louis, Mo.; and Portland, Ore.

The Ohio state law (1923) relating to plats and requiring cities to have official street plans is of especial interest. Under this act, Cincinnati adopted a plan, Apr. 1923.

Montana passed an act in 1917 covering the platting of additions to towns and cities, requiring one-ninth of each plat, with certain exceptions, to be set aside by the developer for public parks and playgrounds. (Chap. 41, Sec. 4981, Art. 9, Political Codes of Montana, vol. 1.)

See also **1800** ff.

774 For legislation relating to special elements of the city plan, *see* Streets, **2070**; Buildings, **3460**; Parks, **4050**; etc. (*See* Subject Index.)

METHODS OF TECHNICAL PROCEDURE

800 Adams, T. Modern city planning: its meaning and methods. Special number of National Municipal Review, June 1922; vol. 11, no. 6. p. 157–177. maps.

Outlines technical procedure.

Knowles, M. Development of the town plan. (*In* his Industrial housing, 1920, p. 53–117. illus., plans.)

Includes experience of U. S. Shipping Board war housing.

U. S. Bureau of Industrial Housing and Transportation. Report of the United States Housing Corporation. Vol. 2, Houses — site planning — utilities. 1919.

Appendices: note especially

1. Instructions for collection of general information on sites.
3. Instructions for collection of engineering information.
4. General instructions to committee of designers.
5. Instructions to surveyors.
6. Tentative instructions to engineering designers.
9. Suggestions to town planners.
10. Instructions to field staff concerning operations.

Suggestions for Official Procedure

812.1 Cheney, C. H. What city planning commissions can do. San Francisco, 1915. 22 p. illus., maps. (California Conference on City Planning, Bulletin no. 1.)

Massachusetts. Homestead Commission. Information and suggestions for city and town planning boards. Boston, 1914. 12 p. (Bulletin no. 2.)

812.2 Abercrombie, P. The new town planning regulations. (Town Planning Review, July 1921; vol. 9, p. 111–119.)

Suggestions as to the part of the Town Planning Committee, the constructive town planner, and the owner in carrying out the new procedure regulations of the British Ministry of Health, 1921.

Aldridge, H. R. The administration of the town planning duties of local authorities. London, National Housing and Town Planning Council, 1922. 95 p.

A supplement to his *Case for Town Planning*, 1916.

Great Britain. Local Government Board. Manual on the preparation of state-aided housing schemes. London, H. M. Stationery Office, 1919. 52 p. illus., plans.

812.3 Ford, G. B., *see* **250,** for procedure in France.

Making of Surveys

815 Adams, T. The making of regional surveys. (*In* Proceedings of American Society for Municipal Improvements, 1920, p. 55–59.)

Abstract in Engineering News-Record, Aug. 4, 1921; vol. 87, p. 201–202.

Civic Survey of Greater London [table showing investigation of data]. (Town Planning Review, Mar.–Apr. 1918; vol. 7, opp. p. 192.)

Comey, A. C. A schedule of civic surveys. Boston, 1916. 16 p. (Massachusetts Homestead Commission, Bulletin no. 5.)

Ford, G. B. Fundamental data for city planning work. (*In* Nolen, J., *ed.*, City planning, 1916, p. 353–386. maps, plans.)

Contains bibliography.

Geddes, P. The city survey: a first step. (Garden Cities and Town Planning, Feb., Mar., Apr. 1911; N.S. vol. 1, p. 18–19, 31–32, 56–58.)

See also **Geddes,** entries under **1300.**

Harrison, S. M. Community action through surveys. Paper presented in part at the Indianapolis meeting of the National Conference of Charities and Correction, May 1916. New York, Department of Surveys and Exhibits, Russell Sage Foundation, [1916]. 29 p.

Lanchester, H. V. Civic survey and reconstruction. (*In* Problems of Reconstruction, London, T. Fisher Unwin, 1918, p. 293–302.)

Nolen, J. The local survey as a basis for city planning studies. (City Plan, June 1915; vol. 1, no. 2, p. 13–16.)

Plan of New York and its Environs. Report of progress, May 1922–Feb. 1923. 67 p.

Mainly devoted to progress on surveys as follows:

Physical survey, by N. P. Lewis.

Economic and industrial inquiry, by R. C. McCrea and R. M. Haig (including statements by F. L. Olmsted and W. W. Stewart).

Social and living conditions survey, by S. M. Harrison, including Housing, by L. Purdy and W. D. Heydecker; Recreation, by L. F. Hanmer and C. A. Perry; School facilities, by G. D. Strayer and N. L. Engelhardt; Public health and sanitation, by H. Emerson, M.D.; Public building programs, by H. H. Hart.

Legal survey, by E. M. Bassett.

Swaelmen, L. van der. Civic development survey. (*In* his Préliminaries d'art civique, 1916, p. 141–163. diagr.)

Based on the work of H. V. Lanchester for the Royal Institute of British Architects.

Unwin, R. Of the city survey. (*In* his Town planning in practice, 1909, etc., p. 140–153. illus., diagr.)

For examples of city plan reports containing particular reference to surveys, see especially in the list on p. 43, those for New York, Birmingham, Flint, Fall River, and Springfield (Mass.). The final report for Springfield is to contain an elaborate exposition of technique.

Topographical Surveys

820 Folwell, A. P. City surveying. (*In* his Municipal engineering practice, 1916, p. 212–260. illus., plans, diagr.)

A brief summary of mapping methods.

Forecasting the future of a city. (American City, Aug. 1922; vol. 27, p. 152.)

On the value of Telephone Company maps.

Topographical Surveys (cont.)

Grinnalds, J. C. Advantages of a topographic map in city planning and zoning. (*In* Proceedings of American Society for Municipal Improvements, 1921, p. 212–218.)
Condensed in American City, Oct., Nov. 1921; vol. 25, p. 280–282, 373–375. map.
Also in Good Roads, Nov. 30, 1921; vol. 61, p. 243–245, 250, 252.

Mitchell, H. C. A topographic survey of a large city. (American City, Feb. 1916; vol. 14, p. 127–130. illus., map.)
Cincinnati.

Nelles, D. H. The making of topographical maps of cities and towns, the first step in town planning. Ottawa, 1921. 40 p. maps, diagr. (Geodetic Survey of Canada. Publication no. 9.)

Pollock, J. R. The topographic survey and its relation to city engineering work. (American City, Feb. 1922; vol. 26, p. 118–120. maps.)

Shirley, J. W. The value of a topographical survey in planning a street system. (American City, June 1915; vol. 12, p. 477–479. plan.)
Major Shirley had charge of the Baltimore survey which has often served as a standard.

U. S. Bureau of Industrial Housing and Transportation. Instructions to surveyors for the preparation of topographical maps, scales 200 feet to an inch and 40 feet to an inch. (*In* its Report of the United States Housing Corporation, 1919, vol. 2, Appendix 5, p. 447–448.)

Among cities reported to have complete topographical surveys may be noted: Baltimore (*see* Shirley article above); Washington; Philadelphia; Cincinnati, Dayton, and Akron Ohio; Flint and Jackson, Mich.; Worcester, Mass.; etc.

See also **834** for technique of presenting survey maps.

Social Surveys

822 Aronovici, C. The social survey. Philadelphia, The Harper Press, 1916. 255 p. illus. (Bureau for Social Research of the Seybert Institution.)

Blackmar, F. W., and E. W. Burgess. Lawrence social survey. A study under the direction of the Dept. of Sociology, University of Kansas. Topeka, State Printer, 1917. 122 p. — Includes city planning.

Curtis, F. R. The collection of social survey material. Chicago, American Library Association Publishing Board, 1915. 15 p.

Harrison, S. M. Social conditions in an American city, a summary of the findings of the Springfield (Ill.) survey. New York, Russell Sage Foundation, 1920. 439 p. illus., maps, plans.

Potter, Z. L., *comp.* The social survey: a bibliography. Revised to Dec. 1915. New York, Russell Sage Foundation, Department of Surveys and Exhibits, 1915. 16 p.

As examples of social surveys for American cities, there may be noted: Pittsburgh, which dealt mainly with labor problems; Springfield (Ill.), which dealt mainly with institutions; and Cleveland, which treated the people and their problems. For an example of the Cleveland Foundation Surveys, *see* **1495.**

Baker, M. N. A sanitary survey — a check list for planning such a survey. (American City, Jan. 1913; vol. 8, p. 13–16.)
A paper read before the Conference of Sanitary Officers of the State of New York, 1912.

Horwood, M. P. Public health surveys, what they are; how to make them; how to use them. With a foreword by W. T. Sedgwick and an introduction by G. C. Whipple. New York, John Wiley & Sons, 1921. 403 p. illus.

Munson, W. L. The sanitary survey as a check on community health. (American City, Mar. 1921; vol. 24, p. 228–230. charts.)

For discussion of **housing survey** technique, *see* **815, Plan of New York,** Purdy and Heydecker report. Notable examples of housing surveys are Newark (Ford, see p. 44 of this *Manual*), Providence (Ihlder), St. Paul (Aronovici), Chicago (Chicago School of Civics and Philanthropy), and the original tenement house survey of New York City (De Forest and Veiller). The survey work of the California Commission of Immigration and Housing is also notable.

Playground and Recreation Association of America. Suggestions for recreational survey. *Mimeographed sheets.*
Technical methods explained. Sheets now available from Association, 1923.

For examples of technique of **recreation surveys,** *see* **815, Plan of New York,** above, **1495, Haynes and Davies** (Cleveland). Detailed information will be found in the publications of the Russell Sage Foundation Dept. of Recreation, and Playground and Recreation Association of America. Notable examples of recreation surveys are for Washington, Scranton, Cleveland, Springfield (Ill.), Buffalo, etc.

Legal Surveys

824 Bassett, E. M. The survey of the legal status of a specific city in relation to city planning. (*In* Proceedings of the 5th National Conference on City Planning, 1913, p. 46–62.)

The City of New York.

Legal sections worthy of special note may be found in the following city plan reports: Chicago, 1909 (W. L. Fisher); Minneapolis, 1917 (A. W. Crawford); Bridgeport, 1916, and Akron, Ohio, 1919 (F. B. Williams, Akron also published separately); Hamilton, Ohio, 1920 (A. Bettman); Fall River, Mass., 1922 (F. Shurtleff).

For legal survey of New York region, *see* **815, Plan of New York.**

Industrial Surveys

826 Goodrich, E. P. An industrial survey of St. Louis. (*In* Proceedings of 10th National Conference on City Planning, 1918, p. 6–14.)

Hatch, W. What is an industrial survey? (American City, Nov. 1915; vol. 13, p. 385–386.)

Hebble, C. R. Cincinnati's industrial survey. (American City, Dec. 1914; vol. 11, p. 487–489. map.)

Holdsworth, J. T. Report of the economic survey of Pittsburgh. Published by the City Council of Pittsburgh, 1912. 229 p. *Out of print.*

Hoover, A. P. Industrial surveys for wartime city planning. (American City, May 1918; vol. 18, p. 475, 477.)

Pepler, G. L. The civic survey preparatory to zoning with particular reference to industry. (Garden Cities and Town Planning, Feb. 1921; vol. 11, p. 36–39.)

Outlines data to be assembled.

For a comprehensive outline of an economic survey, *see* **815, Plan of New York,** Stewart report.

Methods of Presenting Data

832 Brinton, W. C. Graphic methods for presenting facts. New York, Engineering Magazine Co., 1914. 371 p. 257 charts, diagr. (Works Management Library.)

Mulvihill, F. J. Distribution of population graphically presented as a basis for city planning. (American City, Feb. 1919; vol. 20, p. 159–161. illus.)

834 New York (City) Board of Estimate and Apportionment. Maps of the city of New York. (*In* its Report of the Chief Engineer, 1914, p. 58–65.)

Plan of New York and its Environs. Maps and diagrams showing present conditions, New York and its environs, Mar. 1923. Prepared by the Physical Survey. New York, 1923. 39 p.

N. P. Lewis, director of Physical Survey.

836 Robertson, W. The relief map — its advantages as a demonstrator. (American City, Nov. 1914; vol. 11, p. 419, 421, 423; with photo of model of Niagara Falls and vicinity.)

Among the well-known relief models of cities may be mentioned: **Boston Metropolitan District** (in Harvard University Museum) described in illustrated pamphlet by G. C. Curtis, sculptor, issued by Commonwealth of Massachusetts, 1900; **Washington,** city as it existed and Park Commission Plan (in New National Museum), illustrated in Park Commission Report, 1902; **Pittsburgh District** (for Chamber of Commerce, 1904), illustrated in Pittsburgh Flood Commission Report, 1912; **Cincinnati** (at University of Cincinnati), illustrated in Arnold report on Cincinnati Interurban Electric Railway Terminal System, 1912; **Baltimore Harbor** (for Baltimore Port Development Commission).

The booklet issued by Howell's Microcosm (Washington, D. C., now the Robertson Co.) describes various city relief models which that company has made.

Aerial Surveys

839 Adams, T. Aerial photography. (Garden Cities and Town Planning, Sept. 1920; vol. 10, p. 198–199. illus.)

Fairchild, S. M. Aerial photography. (Current Affairs, Boston Chamber of Commerce, Mar. 20, 1922; vol. 12, no. 44, p. 10, 33, 34. illus.)

By President of Fairchild Aerial Corporation, responsible for the well-known aerial map of New York City.

Aerial Surveys (cont.)

Hayler, G. W. The aeroplane and city planning, the advantages of viewing cities from above. (American City, Dec. 1920; vol. 23, p. 575–579. illus.)

Ives, H. E. Pictorial and technical uses; Exploration and mapping. (*In* his Airplane photography, Philadelphia, J. B. Lippincott Co., 1920, p. 388–413. illus.)

Jones, F. E. Aerial photography mapping developed for municipal and other engineering services. (Engineering News-Record, Oct. 13, 1921; vol. 87, p. 596–599, illus., diagr.)

Lewis, N. P. A new aid in city planning: aerial photography. (American City, Mar. 1922; vol. 26, p. 209–212. illus., map.) *Also reprinted.*

Mertie, J. B. Present status of photographic mapping from the air. (Engineering News-Record, May 22, 1919; vol. 82, p. 996–999.)

Mosaic maps of cities. (American City, Sept. 1922; vol. 27, p. 253–255. illus.)

National Conference on City Planning. The use of aerial photography in city planning work. Committee report, by E. P. Goodrich, A. W. Crawford, and H. B. Brainerd. (*In* Proceedings of its 13th conference, 1921, p. 176–182.)

Nelles, D. H. Topographic survey of London, Ontario, and the use of aerial maps. (Journal of Town Planning Institute of Canada, June–Aug. 1921; vol. 1, no. 4–5, p. 24–25.)

Richards, C. H. Los Angeles mapped from air to aid traffic studies. (Engineering News-Record, June 8, 1922; vol. 88, p. 961–963. illus.)

Smith, G. S. Uses of aerial photographs in map making. (Engineering News-Record, Feb. 2, 1922; vol. 88, p. 194–196. map.)

—— In support of aerial surveys. (*Ibid.*, May 4, 1922; vol. 88, p. 746–747. illus., diagr.)

Wood, E. A. Aeroplane map used by city planners in Dallas. (American City, March 1921; vol. 24, p. 251–252. illus.)

Presentation of City Plans

850 Ford, G. B. Town planning reports and the graphic representation of statistics. (*In* Town planning Institute London, Papers and discussions, 1919–20; vol. 6, p. 95–98; with discussion, p. 99–102.)

Abstract in Engineering and Contracting, July 7, 1920; vol. 54, p. 20–21; etc.

See also **800, U. S. Bureau of Industrial Housing,** for both text and illustrations used in presenting the town plans prepared by the Bureau.

852 For examples of typical city planning reports, comprehensive and special, prepared for American cities, see p. 43. Many of these are notable for their illustrations including photographs, plans, and drawings prepared to present the city plan effectively. Except Mr. Ford's paper, above, little has been written on the technique of presentation in this field.

858 Comey, A. C. Brockton city planning procedure program, Aug. 1917. (*In* Brockton, Mass., City Planning Board, Annual report, 1918, folded table, opp. p. 4.)

Technical Advisory Corporation. Estimated cost of improvements recommended for consideration at stated intervals from 1922 to 1972. (*In* its City plan for East Orange, 1922, p. 75, and diagram showing relationship between net bonding limit and cost of proposed improvements, p. 76.)

859 Cost of city planning studies. (*In* Proceedings of 14th National Conference on City Planning, 1922, p. 211.)

See also **1595,** and p. 51, Municipal Appropriations for City Planning.

Construction. Municipal Engineering

860 Folwell, A. P. Municipal engineering practice. New York, John Wiley & Sons, 1916. 422 p. illus., plans, diagr.

A convenient and comprehensive work.

Whinery, S. Municipal public works, their inception, construction, and management. New York, Macmillan Co., 1903. 241 p.

Still of value because it presents the engineering legal viewpoint.

See also special subjects: Streets, etc.

Technical Procedure in Special Fields

870 Bennett, E. H. Zoning Chicago. (National Municipal Review, Mar. 1922; vol. 11, p. 69–71.)

Discusses the technical procedure involved in surveys and plans.

Ford, G. B. Simplifying zoning: exemplified in the completed ordinances for Mansfield, Ohio, and East Orange, N. J. (American City, Apr. 1921; vol. 24, p. 383–386.)

New York (City) Commission on Building Districts and Restrictions. The zoning survey. (*In* its Final Report, 1916, Appendix II, p. 47–50. maps.)

Summary with numerous illustrations of technical methods employed.

Swan, H. S. Making the New York zoning ordinance better. (Architectural Forum, Oct. 1921; vol. 35, p. 125–126, 127–130.)

Discusses improvements in form of maps and classification of districts.

Hubbard, H. V. Some preliminary considerations in Government industrial war housing. (Landscape Architecture, July 1918; vol. 8, p. 157–168. illus., plans.)

Preliminary technical procedure.

Shurtleff, A. A. The development of a street plan for an industrial housing project. (Landscape Architecture, Jan. 1919; vol. 9, p. 67–75. plans.)

The Crane development at Bridgeport, of which Mr. Shurtleff was town planner.

Wood, N. M. Housing project schedule. (Architectural Record, Feb. 1919; vol. 45, p. 118–122.)

Form adopted and used by U. S. Shipping Board Housing Division illustrated and explained. The schedule is for tabulating information to answer questions at all stages of the project.

For technical procedure in Industrial Housing, *see also* **800, Knowles,** and **U. S.**

For technical procedure in Reconstruction work after the war, *see* **1293.**

For technical procedure in Camp and Cantonment planning, *see* **5311.**

Coöperation and Functions of Specialists

875 Adams, T. Architects and landscape architects as town planners. (Journal of the American Institute of Architects, Apr. 1922; vol. 10, p. 101–103.)

—— Architects and city planning. (*Ibid.*, June, Aug., Oct. 1922; vol. 10, p. 201–202, 245–246, 328–330.)

—— The engineer's place in town planning. (Canadian Engineer, Apr. 7, 1921; vol. 83, p. 363–364.)

Alvord, J. W. What part the engineer played in Government housing. Report of chief engineer of the United States Housing Corporation. (Engineering News-Record, Jan. 16, 1919; vol. 82, p. 147–148.)

Brigham, H. R. The realtor and the community. (American City, Feb. 1923; vol. 28, p. 147–148.)

Describes civic work of National Association of Real Estate Boards and its members. *See also* **513.**

Child, S. The landscape architect and the city engineer. (American City, Feb. 1912; vol. 6, p. 464–469. illus.)

Conference of delegates, from national organizations to consider city planning coöperation. (*In* Proceedings of 7th National Conference on City Planning, 1915, p. 231–237.)

Eliot, C. W. The landscape architect as the ally of the sanitarian. (City Plan, Mar. 1915; vol. 1, p. 2–4.)

The lawyer as a city planning adviser. (American City, Sept. 1915; vol. 13, p. 172–173.)

Lewis, N. P. The opportunities and responsibilities of the municipal engineer. (*In* his Planning of the modern city, 2d rev. ed., 1923, p. 412–421.)

A later statement of the subject previously covered by Mr. Lewis in the *City Plan*, Oct. 1915.

Moore, C. Lessons of the Chicago World's Fair; an interview with the late D. H. Burnham. (Architectural Record, Jan. 1913; vol. 33, p. 34–44. illus.)

The coöperation of artists in civic enterprises is further brought out in Mr. Moore's book on Burnham. *See* **205.**

Norton, G. H. The engineer and city planning. (*In* Proceedings of American Society of Civil Engineers, Mar. 1923; vol. 49, p. 561–565.)

Shurtleff, F. The landscape architect in city planning; a speech before American Society of Landscape Architects, Boston, 1915. (Landscape Architecture, Apr. 1915; vol. 5, p. 143–147.)

Swain, G. F. The attitude of the engineer toward city planning. (*In* Proceedings of 4th National Conference on City Planning, 1912, p. 30–34.)

U. S. Bureau of Industrial Housing and Transportation. General instructions to committee of designers. (*In* its Report of the United States Housing Corporation, 1919, vol. 2, p. 444–446.)

Outlines functions and coöperation of members of committees.

Coöperation and Functions of Specialists (cont.)

Unwin, R. Housing: the architects' contribution. (Journal of the Royal Institute of British Architects, Jan. 1919; vol. 26, p. 49–59; with discussion, p. 60–63. illus., plans.)
Read before the R. I. B. A. Describes the function of the architect in the use of imagination in design.

Professional Charges and Examinations

878 La **barême** des honoraires de l'urbaniste. (La Cité, Jan. 1921; vol. 2, p. 56–62.)
Professional charges, proposed for Belgium. *Further article in* same magazine, Oct. 1921; vol. 2, p. 243–249, and editorial: L'urbanisme et les pouvoirs publics, p. 240–242.

Town Planning Institute (British). Professional practice as to charges, prepared by the Council for the guidance of members of the Institute. (*In* its Papers and discussions, 1920–21; vol. 7, no. 9, p. 136–138.)
A similar notice with reference to housing schemes was published in the back of volume 5, for 1918–19.
The American City Planning Institute has no similar publication.

879 Town Planning Institute (British). Town Planning Institute examinations with instructions to candidates and syllabus of subjects, Dec. 1916. (*In* its Papers and discussions, 1916–17, vol. 3, 12 pages in back of volume.)

Competitions

880 Town Planning Institute (British). Regulations of the Town Planning Institute for town planning competitions. (*In* its Papers and discussions, 1916–17; vol. 3, 4 pages in back of volume.)

Theoretical

City planning study [held by National Conference on City Planning, 1913]. Data; Report of committee; Statistical statement; Discussion; Detailed comment; List of participants. (*In* its 5th Proceedings, 1913, p. 163–211, with reproductions of plans.)
Also published complete as special supplement to Landscape Architecture, Apr. 1913; vol. 3, no. 3.

Prize-winning plans for laying out a quarter section of urban land — Chicago City Club competition, 1913. (American City, Apr. 1913; vol. 8, p. 421–427. plans.)
The plans were later published in book form. *See* **3000, Yeomans.**

International

Hayler, G. W. International city planning. (Garden Cities and Town Planning, May 1912, N. S. vol. 2, p. 115–116.)
Competitions for Australian Capital and for Montevideo.

CANBERRA. **Australia. Federal Capital Designs Board.** Federal Capital City. The Parliament of Australia, 1912. 15 p. illus., plans.

—— **Federal Capital Design Adoption Board** Report, 1912. 2 p. plan.
[Editorials on Federal capital of Australia.] (Town Planning Review, Oct. 1912; vol. 3, p. 165–167 and plate 79 — Jan. 1913; vol. 3, p. 221–222, and plate 94, 287–288 — Apr. 1914; vol. 5, p. 66 and plate 26.)

The **plans** for Australia's new capital city. (American City, July 1912; vol. 7, p. 9–12. illus., plan.)

DELHI. **Delhi Town Planning Committee.** Reports, 1st, 2d, and final. Printed in India, 1913; 3 vols. maps.

—— The **new capital city** at Delhi. Editorial. (Town Planning Review, Oct. 1913; vol. 4, p. 185–187. plan.)

DUBLIN. **Civic Exhibition,** Dublin, Ireland, 1914. Information, conditions and particulars for guidance in the preparation of competitive designs for the town plan of Dublin. 10 p.

—— **Nolen, J.** Greater Dublin — competitive designs for the town plan of Dublin, Ireland. (Landscape Architecture, Jan. 1917; vol. 7, p. 73–77, illus., plans.)

—— **Abercrombie, P., and S. and A. Kelly.** Dublin of the future, the new town plan. London, Hodder & Stoughton, [1922]. 60 p. illus., plans.
The scheme awarded first prize, brought up to date.

ZURICH. **Schlussbericht** über den Internationalen Wettbewerb für einen Bebauungsplan der Stadt Zürich und ihrer Vororte. Durchgeführt 1915–1918 unter der Leitung der Städt. Bauverwaltung I. Zurich, Jean Frey, 1919. 76 p. illus., plans.

PARIS. **Seine (Dépt.) Direction de l'Extension de Paris.** Programme du concours ouvert pour l'établissement du plan d'aménagement et d'extension de Paris (Loi du 14 mars, 1919). Paris, Imprimerie Chaix, 1919. 24 p.

Accompanying the program were copies of laws relating to sanitation, expropriation, historic monuments, etc.

Program translated by F. B. Williams in National Municipal Review, Jan. 1920; vol. 9, p. 49–50.

PARIS. **Gréber, J.** The public competition for the rearrangement and embellishment of Paris. (Park International, Sept. 1920; vol. 1, p. 109–120. illus., plans.)

—— **Hammarstrand, N.** The Greater Paris competition. I. The problem. II. The results. (Journal of the American Institute of Architects, Sept., Oct. 1920; vol. 8, p. 331–335, 339–340, 365–370. plans.)

—— **Honoré, F.** Paris dans cinquante ans. (L'Illustration, 3 avril 1920; no. 4022, p. 196–198; 1 mai, 1920; no. 4026, p. 269–272. plans.)

Notes on Competition for Greater Paris.

—— **Le Plan** d'aménagement et d'extension de Paris — several articles. (La Vie Urbaine, 1920, p. 29–111. plans.)

CHAUNY. **Hersey, P.** An interallied architectural competition: a model city to be built. (American City, Apr. 1919; vol. 20, p. 373.)

City of Chauny, France. The competition was instituted by La Renaissance des Cités (Paris), which issued competition program, data, etc. *See also* **6100.**

—— **Holliday, A. C.** The rebuilding of Chauny. (Town Planning Review, July 1921; vol. 9, p. 101–104. plan.)

Review of competition and winning scheme of M. Rey.

BELGRADE. **Dervaux, A.** Le plan de Belgrade. (L'Architecture, Paris, June 25, 1922; vol. 35, p. 207. plan.)

First prize plan by MM. Auburtin, Parenty, Naville et Chauquet, in international competition.

STUDY AND TEACHING

For a list of colleges, universities, and technical schools in the United States offering instruction in city planning, *see* p. 47.

900 Geddes, P. Education for town planning, and the need of civics. (*In* his Cities in evolution, 1915, p. 295–312.)

The subsequent chapter describes Professor Geddes' personal endeavors and his Edinburgh Outlook Tower.

Mawson, T. H. Civic design, its study and technology. (*In* his Civic art, 1911, p. 9–18.)

Nolen, J. Professional training and experience. (*In* his New ideals in the planning of cities, towns, and villages, 1919, p. 111–113.)

A previous statement by Mr. Nolen appeared in the *City Plan*, Aug. 1917.

Williams, F. B. City planning instruction in urban schools and colleges. (American City, Mar. 1917; vol. 16, p. 248–250.)

935 Berrington, A. Town planning at the university. (Journal of the Town Planning Institute of Canada, Apr. 1922; vol. 1, no. 9, p. 12–14.)

The field of study defined by Professor Berrington of Toronto.

945 Geddes, P. Travel and its lessons for citizenship. (*In* his Cities in evolution, 1915, p. 161–175.)

947 Circulars descriptive of city-planning study tours were issued before the war by the International Civic Bureau (New York), 1912 and 1913, American Civic Association (Washington), 1913, and Garden Cities and Town Planning Association (London) and Deutsche Gartenstadt-Gesellschaft (Berlin) for several years. Note especially descriptions of the study tours found in the periodical *Garden Cities and Town Planning.*

960 Partial list of educational institutions [in the U. S.] where city planning receives attention. (*In* Proceedings of 14th National Conference on City Planning, 1922, p. 211.)

See also p. 47 of this *Manual.*

961 University lectures on town planning in various Canadian universities [given by T. Adams and W. D. Cromarty]. (Journal of the Town Planning Institute of Canada, Apr. 1921; vol. 1, no. 3, p. 8–9.)

Discussion also in Ibid., June–Aug., no. 4–5, p. 3, 7–8.

978 [**Courses** of instruction in city planning in Russia, 1911–16 and Civic Museums, etc., 1918.] (La Vie Urbaine, Dec. 15, 1921; vol. 3, p. 421, 423.)

Stout, Sir R. The university, colleges, and schools; their responsibility in relation to the inculcation of town planning principles. (*In* Proceedings of 1st New Zealand Town Planning Conference and Exhibition, 1919, p. 258–262; with discussion and reports, p. 262–274.)

Opportunities in New Zealand.

SPECIAL SCHOOLS

980 Kimball, T. Town planning courses at the School of Landscape Architecture, Harvard University. (Journal of Town Planning Institute of Canada, Feb. 1921; vol. 1, p. 11–12.)

Pray, J. S. The Department of Landscape Architecture in Harvard University. (Landscape Architecture, Jan. 1911; vol. 1, p. 53–70.)

Brief account of School to 1922 *in* Harvard Alumni Bulletin, Mar. 30, 1922.

See also p. 47 of this *Manual.*

Robinson, C. M. City-planning course at the University of Illinois. (Landscape Architecture, Apr. 1913; vol. 3, p. 97–100.)

982 Adshead, S. D. The School of Civic Design at Liverpool University. (Landscape Architecture, Apr. 1911; vol. 1, p. 105–109.)

Town planning for London University. (Garden Cities and Town Planning, Nov. 1914; N.S., vol. 4, p. 258–260.)

984 École Supérieure d'art Public. Programme des cours. 1917–18. [and bulletin *L'Art public.*]

Brief account of school given *in* Town Planning Review, Apr. 1918; vol. 7, p. 283–284 and *in* Landscape Architecture, July 1918; vol. 8, p. 198–199.

Sellier, H. La création de l'enseignement de l'urbanisme en France. (La Vie Urbaine, 1920; p. 149–160.) *Also reprinted.* Supplementary statements of organization, program of courses, etc., of École des Hautes Études Urbaines, Paris, p. 161–191.

986 K. Technische Hochschule, Berlin, *see* **180.**

Nolen, J. Düsseldorf's college for city planners and city administrators. (Landscape Architecture, Jan. 1912; vol. 2, p. 58–59.)

998 Cours d'urbanisme et de municipalisme, L'Institut des Hautes Études de Belgique. (La Cité, Feb.–Mar. 1921; vol. 2, p. 94–96.)

Description of courses.

Swaelmen, L. van der. Cours d'urbanisme et de municipalisme organisés à l'Institut des Hautes Études de Belgique par l'Union des Villes et Communes belges avec le concours de la Société des Urbanistes belges. Leçon d'ouverture des cours. (Le Mouvement Communal, July–Aug. 1921; nos. 7–8, p. 132–136.)

A **Danish** town planning laboratory, Dansk Byplan Laboratorium, Copenhagen. (Housing Betterment, Jan. 1922; vol. 11, p. 47.)

Justiz, F. C. Preliminares de ciencia municipal — urbanismo. Discorso inaugural del curso académico de 1922 á 1923, Universidad de la Habaña. Habaña, 1922. 102 p.

Also notice in Revista Municipal, Oct. 1, 1922; vol. 17, p. 244.

COMPOSITION OF CITY PLANS. PLANNING. REPLANNING

THEORY AND PRINCIPLES OF DESIGN

1200 The comprehensive treatise in English on the theory and principles of town planning design is Unwin's *Town Planning in Practice*. *See* **250.**

Adshead, S. D. Imagination in town planning. (*In* Town Planning Institute, London, Papers and discussions, 1922–23; vol. 9, p. 2–9; with discussion, p. 10–13.)

City development and extension. (*In* Royal Institute of British Architects, Town planning conference, London, 1910, p. 245–312. illus., plans.)

Papers by Raymond Unwin, Augustin Rey, W. E. Riley, J. Stübben.

A very interesting series of four plans showing the progress in the development of city plans, 1871–1921, may be found in the annual report of the Philadelphia Bureau of Surveys for 1921.

GENERAL CONSIDERATIONS

1205 Ashbee, C. R. Where the great city stands; a study in the new civics. London, Essex House Press, 1917. 165 p. illus., plans.

A full discussion of this book is contained in an article: Esthetics in Reconstruction, by T. Kimball in *Landscape Architecture*, Oct. 1918.

Branford, V., and **P. Geddes.** The coming polity: a study in reconstruction. London, Williams & Norgate, 1917. 264 p. (The Making of the Future Series.)

Fassett, C. M. Assets of the ideal city. New York, Crowell Co., 1922. 177 p.

Advance selections in *American City*, Apr. 1921.

Geddes, P. Cities in evolution; an introduction to the town planning movement and to the study of civics. London, Williams & Norgate, 1915. 409 p. illus., plans.

Howe, F. C. European cities at work. New York, Charles Scribner's Sons, 1913. 370 p. illus., plan.

Hungerford, E. The personality of American cities. New York, McBride, Nast & Co., 1913. 344 p. illus.

McVey, F. L. The making of a town. Chicago, A. C. McClurg & Co., 1913. 221 p.

Pollock, H. M., and **W. S. Morgan.** Modern cities; progress of the awakening for their betterment here and in Europe. New York, Funk & Wagnalls Co., 1913. 418 p. illus., plans.

Zueblin, C. American municipal progress. new and rev. ed. New York, Macmillan Co., 1916. 522 p. illus. (Social Science Textbooks.) — First ed., 1902.

SPECIAL CONSIDERATIONS

Social Considerations

1210 Ackerman, F. L. Where goes the city planning movement? (Journal of the American Institute of Architects, Dec. 1919, Jan., Mar., Aug., Oct. 1920; vol. 7, p. 518–520; vol. 8, p. 15–18, 108–110, 284–287, 351–354.)

A series of articles vehemently decrying, from the social viewpoint, the present tendencies of American city planning.

Adams, T. City planning and city building. (Journal of the American Institute of Architects, June 1921; vol. 9, p. 195–197.)

A review of Mr. Ackerman's standpoint as stated in the above series of articles.

Cauchon, N. Why is town planning? (Journal of Town Planning Institute of Canada, Nov. 1922; vol. 1, no. 12, p. 1–3.)

Address at Ontario Town Planning and Housing Association Convention.

Hubbard, C. Some social aspects of town planning. (*In* Town Planning Institute, London, Papers and discussions, 1918–19, vol. 5, p. 105–108; with discussion, p. 109–112.)

Lanchester, H. V. The ethics of town planning. (Town Planning Review, Oct. 1916; vol. 7, p. 18–27, and plates 7–10.)

Lasker, B. "Bolshevik cities," an undelivered speech at the 11th National Conference on City Planning. (Survey, June 14, 1919; vol. 42, p. 423–425.)

—— Unwalled towns. (Survey, Mar. 1920; vol. 43, p. 675–680, 718. illus.)

Tendencies toward social segregation to be guarded against in town planning and zoning. *See also* **1600, Cheney,** for a reply.

Special Considerations (cont.)

Marquis, F. J. Some sociological aspects of town planning. (Town Planning Review, Apr. 1910; vol. 1, p. 66–71.)

Marsh, B. C. City planning in justice to the working population. (Charities, Feb. 1, 1908; vol. 19, p. 1514–1518.)

Mumford, L., *see* **1424.**

Robinson, C. M., *see* **250.** Mr. Robinson's writings have a strong appreciation of social values. Cf. his *The Call of the City*, San Francisco, Paul Elder & Co., 1908.

Unwin, R. Homes for human beings. (Garden Cities and Town Planning, Sept. 1919; vol. 9, p. 163–165. illus.)

Part of the introductory lecture given at the Alhambra Theatre, London, on the occasion of the first Cinematograph Exhibition of housing pictures on May 22, 1919.

—— The overgrown city. (Survey, Oct.15, 1922; vol. 49, p. 85–86. illus.)

The real social basis for the composition of a city plan.

Williams, W. City planning in flesh and blood. (National Municipal Review, Sept. 1919; vol. 8, p. 466–471.)

The public welfare movement in Cleveland as a background for "city planning in brick and stone."

See also several articles listed under **1600** discussing social aspects of zoning.

Economic Considerations

1225 Batterson, E. S. Town promotion and city planning. (American City, Mar. 1911; vol. 4, p. 119–120.)

Brunner, A. W. The business side of city planning; a condensation of an address before American Civic Association. (National Municipal Review, Apr. 1912; vol. 1, p. 236–240.)

Davidge, W. R. Town planning in relation to the community. (Garden Cities and Town Planning, Dec. 1914; vol. 4, p. 269–271.)

Ford, G. B. City planning and real estate; from a paper read at conference between Fine Arts Federation of New York and representatives of the real estate organizations of New York. New York, The Civic Press, 1915. [2 p.] (American City Pamphlet no. 127.)

—— City planning and municipal economy. (*In* 7th Yearbook of City Managers' Association, 1921, p. 124–128.)

Lewis, N. P. The economic value of a city plan. (*In* his Planning of the modern city, 1916 and 1923, p. 175–185. illus., plans.)

McFarland, J. H. The relation of city planning to business. (*In* Proceedings of 9th National Conference on City Planning, 1917, p. 155–167.)

The economic considerations in city planning are brought out strikingly in the Stewart report for the Plan of New York. *See* **815.**

See also **1563** ff., **1570, 4016.**

Esthetic Considerations

1235 Ackerman, F. L. The architectural side of city planning. (*In* Proceedings of 7th National Conference on City Planning, 1915, p. 107–120.)

On the fundamental basis of civic art.

Adshead, S. D. Town planning and amenities. (Town Planning Review, July 1914; vol. 5, p. 86–90.)

Art and life, and the building and decoration of cities: a series of lectures by members of the Arts and Crafts Exhibition Society, delivered at the fifth exhibition of the Society in 1896. London, Rivington, Percival & Co., 1897. 260 p.

Brinckmann, A. E. Deutsche Stadtbaukunst in der Vergangenheit. Frankfurt a. M., H. Keller, 1911. 160 p. illus., plans. — Rev. enl. ed. 1921.

Mainly on the esthetic aspects.

Buls, C. Esthétique des villes. Bruxelles, E. Bruylant, 1893. 41 p. illus.

Translated in part in Municipal Affairs, Dec. 1899; vol. 3, p. 732–741.

—— Esthétique des villes; rapport. (*In* Belgium. Commission Royales des Monuments et des Sites, Résumé des procès-verbaux, 1914, p. 265–292.)

Carrère, J. M. City improvement from the artistic standpoint, 1908. 19 p. illus., plan. (Municipal Art Society of Hartford, Conn. Bulletin no. 7.)

Chandler, H. P. The attitude of the law toward beauty: evidence that courts are giving aesthetic values more and more consideration and that the police power is gradually being developed in reference to them. (American Bar Association Journal, Aug. 1922; vol. 8, p. 470–474.)

Edwards, A. T. On the influence of town planning upon architectural style. (Town Planning Review, Jan. 1915; vol. 5, p. 268–278.)

Ford, G. B. Planning the attractive town. (*In* Proceedings of 13th National Conference on City Planning, 1921, p. 195–203.)

Hegemann and Peets, *see* **3455.**

Henrici, K. Beiträge zur praktischen Aesthetik im Städtebau. Eine Sammlung von Vorträgen und Aufsätzen. München, G. D. W. Callwey, [1904]. 278 p. illus., plans.

Mawson, T. H. Civic art. *See* **250.**

—— The need for imagination in town planning. (Town Planning Institute, London, Papers and Discussions, 1920–21; vol. 7, p. 23–30; with discussion, p. 33–34.)

—— Town and country, a comparison; The aesthetics of civic art. (*In* his Civic art, 1911, p. 21–50. illus., plans.)

Nolen, J. The place of the beautiful in the city plan — some everyday examples. (*In* Proceedings of 14th National Conference on City Planning, 1922, p. 133–147. plates.) *Also reprinted.*

Olmsted, F. L. The limits of city beautification — a reply to an inquiry. (American City, May 1910; vol. 2, p. 209–212.)

Schmidkunz, H. Optisches im Städtebau. (Städtebau, July, Aug. 1909; vol. 6, p. 85–87, 104–106.)

Swaelmen, L. van der. Le problème esthétique dans la vie municipale; Comment le poser, au moins, afin de le résoudre un jour, peut-être? (*In* Congrès International et Exposition Comparée des Villes, Ghent, 1913, Rapport, 1914, s. I., p. 193–197.)

U. S. Bureau of Industrial Housing and Transportation. The housing project: its general appearance. (*In* its Report of the United States Housing Corporation, 1919, vol. 2, p. 71–74.)

Unwin, R. Of formal and informal beauty. (*In* his Town planning, 1909, etc., p. 115–139. illus., plans.)

Williams, F. B. Planning for the promotion of beauty. (*In* his Law of city planning and zoning, 1922, p. 381–442.)

Zimmermann, M. G. Künstlerische Lehren aus der Geschichte des Städtebaus. Berlin, W. Ernst & Sohn, 1909. 26 p. illus., plan. (Städtebauliche Vorträge, Bd. 2, Heft 5.)

See also **2290, 3455, 3700** ff., **3830** ff., **4000** ff.

1242 Unwin, R. Of civic art as the expression of civic life. (*In* his Town planning, 1909, etc., p. 2–14. illus., plans.)

1246 Eberlein, H. D. Aviation and civic improvements. (American Homes and Gardens, Sept. 1912; vol. 9, p. 304–307. illus.)

Effect on civic design of considering view of city from the air.

See also **839.**

1256 Lamb, F. S. Civic treatment of color. (Municipal Affairs, Mar. 1898; vol. 2, p. 110–122. illus.)

Ricardo, H. Of color in the architecture of cities. (*In* Art and life, and the building and decoration of cities, 1897, p. 213–260.)

Zimmermann, M. J. Die Farbe im Stadtbild. Berlin, W. Ernst & Sohn, 1915. 40 p. illus. (Städtebauliche Vorträge, Bd. 8, Heft 1.)

Historic Considerations

1272 Lanchester, H. V. Tradition and city development. (Town Planning Review, Jan. 1915; vol. 5, p. 260–261.)

1274 Elgood, F. M. "Character," its application in town planning schemes. (*In* Town Planning Institute, London, Papers and discussions, 1918–19, vol. 5, p. 79–83; with discussion, p. 84–88.)

Henrici, K. Der Individualismus im Städtebau. (*In* his Beiträge zur praktischen Aesthetik im Städtebau, 1904, p. 58–84. illus., plans.)

1276 Blunck, E. Denkmalpflege und Städtebau. Berlin, W. Ernst & Sohn, 1913. 40 p. illus., plans. (Städtebauliche Vorträge, Bd. 6, Heft 2.)

Brown, G. B. Town planning and the preservation of ancient features. (*In* Royal Institute of British Architects, Town planning conference, London, 1910, p. 187–199.)

Gurlitt, C. Conservation du cœur d'anciennes villes. Traduction d'une conférence faite à Salzburg; *suivie de*: La conservation du cœur de la ville de Bruxelles, note de Ch. Buls. 24 p. (Bruxelles, Révue belge Tekhne, Oct. 1912.)

Historic Considerations (cont.)

Williamson, W. H. Recording history in landscape. (Landscape Architecture, Jan. 1921; vol. 11, p. 86–89. illus., plan.)

The design of the state capitol grounds, Bismark, N. D., as a memorial comprehending state history and landscape forms.

There should be noted also the reports of such national societies as the American Scenic and Historic Preservation Society, National Trust for Places of Historic Interest or Natural Beauty (British), Société pour la Protection des Paysages de France, the Rheinische Verein für Denkmalpflege und Heimatschutz, etc.; and such national commissions as the French Commission des Monuments Historiques and the Belgian Commission Royale des Monuments et des Sites.

1279 Olmsted, F. L., Sr. The disuse of older landscape words and terms. (Landscape Architecture, Oct. 1920; vol. 11, p. 15–18.)

Selected from his unpublished papers as suggestive for place names.

—— Place names for California. (Landscape Architecture, Oct. 1922; vol. 13, p. 40–42.)

A letter from F. L. Olmsted, Sr., to those undertaking the laying out of the Berkeley neighborhood in 1864.

1290 Cities of the future. (*In* Royal Institute of British Architects, Town planning conference, London, 1910, p. 337–400. plans.)

Predictions by representatives from various countries.

Lasker, B. "Bolshevik cities." *See* **1210.** *See also* **1424, 1426, 5350.**

War Memorials

1292 American Federation of Arts. War memorials. (2 circulars.) Washington, [The Federation], Feb. 24, Jan. 2, 1919.

Boston Society of Architects, and Boston Society of Landscape Architects. War memorials. Boston, [1920]. 14 p. illus.

Brockway, A. L. Observations on types of memorials. (American Architect, Apr. 9, 1919; vol. 115, p. 511–514.)

Budden, L. B., *see* **6100.**

Cheney, C. H. The war memorial — shall we make it something worth while? (Architect and Engineer of California, Dec. 1918; vol. 55, p. 39–46. illus., plans.)

Civic centers as war memorials; statement prepared by the Bureau of Memorial Buildings of the War Camp Community Service. (American City, Oct. 1919; vol. 21, p. 330–334. illus.)

Cornelius, C. O. War memorials. Part I, Community houses for towns and small cities; Part II, Community buildings for large cities; Part III, Monumental memorials. (Architectural Record, Dec. 1919, Jan., Feb. 1920; vol. 46, p. 535–555, vol. 47, p. 39–57, 119–131. illus., plans.)

Crawford, A. W., and J. H. McFarland. The location and design of war memorials. 8 p. (American Civic Association Bulletin, Series II, no. 14, May 1919.)

Faxon, R. B. Roadside planting as a memorial to our soldiers and sailors. (American Forestry, Feb. 1919; vol. 25, p. 864–867. illus.)

Jackson, H. E. Community buildings as soldiers' memorials. 12 p. (U. S. Department of the Interior. Bureau of Education. Community Center Circular no. 2, Jan. 1919.)

Memorials of the world war. (Community Leadership, published by American City Bureau, Jan.–Feb. 1923; vol. 4, no. 1, p. 1.)

List of various types already undertaken in the United States.

Moore, C. War memorials. (Architecture, Feb. 1920; vol. 41, p. 38–41.)

An address delivered at the Metropolitan Museum, New York, Dec. 21, 1919.

Municipal Art Society of New York City. War memorials. [New York, The Society, 1919.] 22 p. illus. (Bulletin no. 17.)

National Committee on Memorial Buildings, New York. [Bulletins on community houses as war memorials, nos. 1–4.] 1919.

Articles *also in* American City, Jan. 1919; vol. 20, p. 27–35, by E. R. Shippen. And *in* National Municipal Review, Mar. 1919; vol. 8 p. 129–135, by A. S. Bard.

The **new town** of Lens, Saskatchewan. (Journal of Town Planning Institute of Canada, Oct. 1921; vol. 1, no. 6, p. 1–2. plan. Also article by Dr. E. Deville, p. 8.)

Proposed as a memorial.

Nolen, J. The town plan as a basis for a war memorial. (American City, Mar. 1920; vol. 22, p. 293–295.)

Olmsted, F. L., Jr. Parks as memorials. [Address before American Federation of Arts, War Memorial Session, May 1919.] (American Magazine of Art, Sept. 1919; vol. 10, p. 415–419.)

Also in Parks and Recreation, July 1919; vol. 2, p. 23–31. illus.

Pack, C. L. Memorial trees. Washington, American Forestry Association, [1919]. 8 p. illus., diagr.

Steele, F. Worthy memorials of the great war. (Landscape Architecture, Jan. 1920; vol. 10, p. 57–64.)

U. S. National Commission of Fine Arts. War memorials; suggestions as to the forms of memorials and the methods of obtaining designers. Washington, Jan. 2, 1919. 3 p.

—— Memorials of the Great War. (*In* its 9th Report, 1919–1921, p. 67–80. illus.)

Chapter on American cemeteries in Europe, p. 39–66.

Weitenkampf, F. War memorials; a list of references in the New York Public Library. Reprinted from the Bulletin of the New York Public Library of Aug. 1919. 10 p.

Also in Architectural Record, Sept. 1919; vol. 46, p. 278–285.

Wilcox, A. Plan to enlarge the state reservation at Niagara and establish the New York state memorial riverways and reserves. (*In* Proceeding of 11th National Conference on City Planning, 1919, p. 152–158.)

Williams, E. T. War memorial towns. (Garden Cities and Town Planning, Nov. 1919; vol. 9, p. 211–212.)

Reconstruction, after War

1293 Newman, B. J. Reconstruction and rehabilitation work in Europe. (American City, Sept. 1917; vol. 17, p. 232–235.)

Chart showing suggested organization of reconstruction unit.

Chart *also reproduced*, with note, *in* Survey, Oct. 6, 1917; vol. 39, p. 22–23.

Belgium

Schellekens, O. L'Aménagement des villes — Termonde Renaissante. Gand, W. Siffer, 1919. 234 p.

Emphasizes esthetic aspects with special reference to reconstruction of Termonde. Author is member of Commission Royale des Monuments et des Sites.

Société des Urbanistes Belges. Rapport présenté à M. le Ministre des Affaires Economiques par la Société, concernant l'institution éventuelle d'un Conseil Supérieur de la Reconstruction. (La Cité, Feb.–Mar. 1921; vol. 2, p. 87–89.)

Swaelmen, L. van der., *see* **250.**

L'Union des Villes (belges) et l'Exposition de la Reconstruction. [Proceedings.] (La Cité, special Exposition number, Oct.–Nov., 1919; vol. 1, p. 57–92. illus., plans.)

See also **40.**

France

American Industrial Commission to France. Report to the American Manufacturers Export Association. Sept.–Oct. 1916. [New York], Published 1917. 256 p. illus., plans.

Ch. 18, City Planning; Ch. 21, Devastated regions. George B. Ford represented city-planning interests on the Commission.

Agache, D. A. Nos agglomérations rurales; comment les aménager; étude monographique analytique, comparée d'un concours de plans de bourgs et villages. Paris, Librairie de la Construction Moderne, [1918]. 236 p. illus., plans.

Agache, D. A., Auburtin, and **E. Redont.** Comment reconstruire nos cités détruites; notions d'urbanisme s'appliquant aux villes, bourgs et villages. Paris, A. Colin, 1915. 257 p.

Association Générale des Hygiénistes et Techniciens Municipaux, Paris. Exposition de la cité reconstituée, esthetique et hygiène; rapport général par Louis Gaultier. Paris, Imprimerie Centrale de la Bourse, 1917. 611 p. illus., plans.

Auburtin, J. M., and **H. Blanchard.** La cité de demain dans les regions dévastées. Paris, A. Colin, 1917. 317 p.

Ford, G. B. Out of the ruins. New York, Century Co., 1919. 275 p. plates, maps.

On the devastation in France and progress in reconstruction.

Articles by Mr. Ford outlining subsequent progress appeared as follows: *in* American City, Mar. 1920; vol. 22, p. 217–221; Landscape Architecture, Apr. 1920; vol. 10, p. 114–120; Journal of the American Institute of Architects, Sept. 1920; vol. 8, p. 336–337 (Rheims); Survey, May 7, 1921; vol. 46, p. 173–180.

——. *See also* **250.**

Reconstruction, after War (cont.)

Geddes, P. The Paris Exhibition of the Reconstituted City, 1916. (National Municipal Review, July 1917; vol. 6, p. 457–462.)

Kimball, T. City-planning problems in the reconstruction of French towns. (Landscape Architecture, Jan. 1918; vol. 8, p. 53–68.)

Includes bibliography. Subsequent articles, in the same magazine: July 1918, Jan. 1919, Apr. 1920.

Renaissance des Cités, Paris. [Various publications, including Le village modèle (Pinon) and numerous technical leaflets, 1918–20.]

The center of propaganda for scientific reconstruction. See notice in Ford book above.

Rosenthal, L. Villes et villages français après la guerre; aménagement, restauration, embellissement, extension. Paris, Payot & Cie, 1918. 288 p.

Of interest as a popularized presentation of the subject for the French general reader.

Storey, C. J. La cité reconstituée — an exposition on the replanning and reorganization of the devastated regions in France. (American City, Sept. 1916; vol. 15, p. 252–254. illus.)

Great Britain and Canada

Adams, T. Reconstruction in Great Britain. (National Municipal Review, Mar. 1919; vol. 8, p. 118–125.)

Rochester Reconstruction Conference address. Includes housing problems.

—— Returned soldiers and land settlement; The problem of the returned soldiers and social re-adjustment after the war; Appendix E, Land settlement and after-war employment problems. (*In* his Rural planning and development, Canada, 1917, p. 207–216, 247–249, 268–270.)

Great Britain. Ministry of Reconstruction. Reconstruction problems. A series of pamphlets. London, 1918–19. No. 25. Town planning. 20 p.

These popular pamphlets accompanied a series of exhaustive technical reports, of which those on Electric Power Supply, Housing, and Land are of especial interest.

See also **6600** ff.

Kimball, T. Our British allies and reconstruction; a review of some recent writings. (Landscape Architecture, July 1918; vol. 8, p. 169–174.)

United States

A motive and a method for American reconstruction. (American City, Nov. 1918; vol. 19, p. 347–352.)

Program for community action in U. S. to further reconstruction, developed by joint committee of *American City* and National Municipal League.

Municipal Reference Library Notes, New York. Municipal reconstruction number; with bibliography. Nov. 13, 1918; vol. 5, no. 11.

Three cities should be noted for their published reconstruction programs:

Chicago. Reconstruction program of the Chicago Plan Commission. Dec. 1918.

Rochester. A municipal reconstruction program. Rochester Bureau of Municipal Research. Oct. 1918.

St. Louis after the war. The City Plan Commission. With an introduction by Winston Churchill. 1918.

FUNDAMENTAL DATA
CIVIC SURVEYS

1300 Abercrombie, P. The civic survey in general education. (Garden Cities and Town Planning, Feb. 1921; vol. 11, p. 31–34.) *Also in* Town Planning Review, July 1921; vol. 9, p. 105–110.)

Adshead, S. D. The practical utility of civic survey. (Garden Cities and Town Planning, Feb. 1921; vol. 11, p. 34–35.)

Aronovici, C. The city plan. (*In* his Social survey, 1916, p. 34–43.)

Outlines social factors to be considered in city planning.

Fleure, H. J. The regional survey, preparatory to town planning. (*In* Town Planning Institute, London, Papers and discussions, 1917–18, vol. 4, p. 31–38; with discussion, p. 39–43.)

Ford, G. B. The city scientific. (*In* Proceedings of 5th National Conference on City Planning, 1913, p. 31–41; with discussion, p. 41–45.)

Need for surveys and nature of fundamental data.

Geddes, P. Beginnings of a survey of Edinburgh. Reprint from The Scottish Geographical Magazine, 1919, vol. 35, p. 281–315, as Monograph supplement no. 1 of The Sociological Review. plan. diagrs. ("Edinburgh" number.)

—— Regional and city surveys as affording policy and theory for town planning and city design. (*In* Town Planning Institute, London, Papers and discussions, 1921–22, vol. 7, no. 9, p. 119–127; with discussion, p. 128–131.)

—— The survey of cities; City survey for town planning purposes. (*In* his Cities in evolution, 1915, p. 329–358.)

Gross, M. Recent results in the social and civic survey movement; *and* The survey as an implement of democracy. (National Municipal Review, Jan. 1918, Nov. 1918; vol. 7, p. 48–53, 566–574.)

La Farge, C. G. Regional surveys — their aim and importance in war and peace. (Journal of the American Institute of Architects, Aug. 1918; vol. 6, p. 402–404.)

An address before the Home Registration Service Committee of the State Council of Defense, Aug. 5, 1918, at Chicago.

Olmsted, F. L. A city planning program. (*In* Proceedings of 5th National Conference on City Planning, 1913, p. 1–16.)

Also in Journal of American Institute of Architects, June 1913; vol. 1, p. 231–239.

Plan of New York, *see* **815.**

Pray, J. S. The survey for a city plan. (*In* Proceedings of the 5th Annual Conference of Mayors and other city officials of the State of New York, 1914, p. 154–170; with discussion.)

Also published in Landscape Architecture, Oct. 1914; vol. 5, p. 5–14.

Unwin, R. Civic survey, a city's control of its growth. [Substance of a paper read at the Civic Survey Conference, Dec. 17, 1920.] (Garden Cities and Town Planning, Mar. 1921; vol. 11, p. 59–62.)

See also **815** ff., where information on Technical methods of preparing surveys may be found.

CLIMATE, TOPOGRAPHY, ETC.

1320 Manning, W. H. The Billerica town plan. (Landscape Architecture, Apr. 1913; vol. 3, p. 108–118. plans.)

Also published in Billerica (monthly), 1912–1913. vol. 1–2.

An example of data on natural conditions assembled for the planning of a small town. Mr. Manning's Plan for Birmingham, Ala., gives the same type of survey data for a great manufacturing region.

The reports, surveys, and maps prepared by the U. S. Geological Survey and the U. S. Coast Survey, and the soil surveys of the Dept. of Agriculture are of special interest.

1330 Kassner, C. Die meteorologischen Grundlagen des Städtebaues. Berlin, W. Ernst & Sohn, 1910. 26 p. illus. (Städtebauliche Vorträge, Bd. 3, Heft 6.)

Salisbury, R. D. Climate. (*In* his Physiography, New York, Henry Holt & Co., 1913, p. 676–705. diagr.)

The publications of the U. S. Weather Bureau should be noted.

1334 Mead, D. W. Hydrology, the fundamental basis of hydraulic engineering. New York, McGraw Hill Book Co., 1919. 647 p. illus., diagr.

Rainfall data.

Frequency of excessive rainfalls; data compiled by U. S. Housing Corporation from records of the Weather Bureau showing average frequency of rainfall at various high rates. (Municipal Journal, New York, Sept. 14, 1918; vol. 45, p. 204–206. diagr.)

1340 Avebury, Sir J. L. Of local divisions and the sites of towns. (*In* his Scenery of England, New York, Macmillan Co., 1902, p. 478–487. illus., diagr.)

Hurd, R. M. Location of cities; Ground plan of cities. (*In* his Principles of city land values, 1903, p. 22–36. plans.)

Robinson, C. M. The site of the city. (*In* his Improvement of towns and cities, 1913, etc., p. 1–17.)

1356 Among the American cities where the problems caused by hills have received special attention in city planning may be mentioned San Francisco, Pittsburgh, Cincinnati, Providence, Seattle, Tacoma, Portland (Ore.), Omaha, St. Paul, and Montreal.

POPULATION. GROWTH OF CITIES. SOCIAL CONDITIONS. HOUSING. PUBLIC HEALTH AND SAFETY

1400 **Dwellings** in the United States and percentage of home ownership in cities over 100,000, compiled from Reports of the Bureau of Census by the Division of Building and Housing of the Bureau of Standards. (National Real Estate Journal, Feb. 27, 1922; vol. 23, p. 29.)

Manning, W. H. A summary of municipal activities; various data of cities of over 100,000 population. (American City, Apr. 1917; vol. 16, p. 333–339. diagr.)

Similar information appeared in the report for Birmingham, Ala., by the senior Manning.

Population of first 100 cities in U. S. in order of their rank showing the gain from 1910 to 1920, as given out by the U. S. Bureau of the Census. (American City, Nov. 1920; vol. 23, p. 511.)

Rossiter, W. S. Increase of population in the United States, 1910–1920. A study of changes in the population of divisions, states, counties, and rural and urban areas, and in sex, color, and nativity at the Fourteenth Census. Washington, Govt. Printing Office, 1922. 255 p. diagr. (Census Monographs, I.)

U. S. Bureau of the Census. Fourteenth census of the United States: 1920.

Vol. I, Population: Number and distribution of inhabitants, contains sections on cities and their suburbs, metropolitan districts and methods of defining districts.

Vol. IV, Population: Occupation statistics (in course of publication).

Vol. IX, Manufactures: Report for states with statistics for principal cities, now available in state bulletin form.

—— Bulletins, issued 1922.
Color or race, nativity and parentage.
Dwellings and families.
Ownership of homes.

—— General statistics of cities: 1916, including statistics of parks, playgrounds, museums, and art galleries, zoölogical collections, music and entertainments, swimming pools and bathing beaches, and other features of the recreation service. Washington, Govt. Printing Office, 1917. 88 p. maps, tables, diagr.

Whipple, G. C. Vital statistics. 2d ed. New York, John Wiley & Sons, 1923. 579 p. diagr.

Chapter VI. Prediction of future population, p. 199–236. The first ed., 1919, does not contain this chapter.

Growth of Cities and Decentralization

1424 **Bonnier, L.** La population de Paris en mouvement, 1800–1961; contribution aux études de la Commission d'Extension de cette ville. (La Vie Urbanie, Mar.–June 1919; vol. 1, p. 7–76. illus., plans.)

Conurbations. (Survey, Oct. 15, 1922; vol. 49, p. 94. map.)

Hurd, R. M. Forces creating cities. (*In* his Principles of city land values, 1903, p. 19–21.)

Maunier, R. L'origine et la fonction économique des villes [étude de morphologie sociale]. Paris, V. Giard & E. Brière, 1910. 325 p. (Bibliothèque Sociologique Internationale XLII.)

Mumford, L. The heritage of the cities movement in America; an historical survey. (Journal of the American Institute of Architects, Aug. 1919; vol. 7. p. 349–354.)

Thesis that, in growth of American cities, development of civic life hitherto neglected should be basis for real municipal planning.

Reclus, E. The evolution of cities. (Contemporary Review, Feb. 1895; vol. 67, p. 246–264.)

Stein, C. S. The future of our big cities. (Journal of American Institute of Architects, Jan. 1923; vol. 11, p. 24–25.)

On the inordinate growth and congestion of New York and London.

Weber, A. F. The growth of cities in the nineteenth century: a study in statistics. New York, Macmillan Co., 1899. 495 p. (Columbia University Studies in History, Economics, and Public Law, vol. 11.)

—— The significance of recent city growth; the era of small industrial centers. (Annals of the American Academy of Political and Social Science, March 1904; vol. 23, p. 223–236.)

Wilcox, D. F. City growth; The problem of great cities. (*In* his Great cities in America, New York, Macmillan Co., 1910, p. 402–416.)

1425 Causes of congestion of population; The prevention and relief of congestion — a series of papers. (*In* Proceedings of 2d National Conference on City Planning, 1910, p. 33–112.)
See also **1677.**

Residential and Industrial Decentralization
Satellite Towns

1426 Aronovici, C. Suburban development. (*In* American Academy of Political and Social Science, Housing and town planning, 1914, p. 234–238.)

Ford, J. Residential and industrial decentralization. (*In* Nolen, J., *ed.*, City planning, 1916, p. 333–352. plans.)

Garden City Association, London. Housing in town and country. Being a report of a conference held in London, Mar. 16, 1906. With an introduction by Thomas Adams. London, The Association, [1906]. 80 p. illus.
On city *vs.* country, with arguments for decentralization.

Ihlder, J. The city plan and living and working conditions. A general outline of the subject. (*In* Proceedings of 13th National Conference on City Planning, 1921, p. 6–21.) *Also reprinted.*
A plea for decentralization and for planning in regional units.

Kessler, G. E. Cincinnati's problem of centralization and decentralization. (*In* Proceedings of 12th National Conference on City Planning, 1920, p. 32–35.)

Nolen, J. Modern city planning principles applied to a small community: Mariemont, a new town in the Cincinnati district. (National Real Estate Journal, Mar. 26, 1923; vol. 24, no. 7, p. 21–27. illus., plan.) *Also reprinted.*
Statement prepared in collaboration with Sylvester Baxter. Article on Mariemont also in *American City*, Oct. 1922.

Ormiston, E. The public control of the location towns. (Garden of Cities and Town Planning, Feb. 1919; vol. 9, p. 23–30.) *Reprinted from* the Economic Journal, Dec. 1918.
On decentralization.

Reade, C. C. Aeroplanes and town planning. (Garden Cities and Town Planning, Dec. 1912; N. S. vol. 2, p. 265–269.)
The effect of aerial transportation in the decentralization of cities.

Taylor, G. R. Satellite towns. *See* **5320.**

Unwin, R. "Distribution." (*In* Town Planning Institute, Papers and discussions, London, 1920–21; vol. 7, no. 4, p. 37–45; with discussion, p. 46–51.)

—— New problems in town planning. (Garden Cities and Town Planning, May 1920; vol. 10, p. 108–113.)

Many substantial arguments for decentralization will be found in the Garden City publications, *see* **5350.** *See also* **1600,** Zoning; **1650,** Industrial districts; **1677,** Density of development; **6100,** Regional planning.

Cost of Living

1428 Cost of living in the United States — family income. (Monthly Labor Review, U. S. Bureau of Labor Statistics, Dec. 1919; vol. 9, p. 1693–1705. tables.)

Hudson, R. M. How to determine cost of living in an industrial community. (Industrial Management, Sept. 1918; vol. 56, p. 185–191. tables.)

King, C. L. Lower living costs in cities, a constructive programme for urban efficiency, New York, D. Appleton and Co., 1915. 355 p. (National Municipal League Series.)
Deals largely with means of reducing food distribution costs, but treats other factors briefly.

Lane, F. V. Z., and J. Nolen. City planning and distribution costs. (Annals of the American Academy of Political and Social Science, Nov. 1913; vol. 50, p. 240–246.)
Suggests means for reducing the cost of living.

Massachusetts. Commission on the Necessaries of Life. Report. Boston, State Printers, Feb. 1920. 182 p. diagr.

National Industrial Conference Board. Changes in cost of living, July 1914–Nov. 1922. Published Dec. 1922. 37 p. (Research report no. 57.)

Waissar, I. The principles of port development and their relation to the cost of living. (Port of New York, Aug. 1922; vol. 1, no. 8, p. 27–28.)

Housing

1430 Aronovici, C. Housing and the housing problem. Chicago, A. C. McClurg & Co., 1920. 163 p. (National Social Science Series.)

Housing betterment, a journal of housing advance, issued quarterly by the National Housing Association. New York, vol. 1, no. 1, Feb. 1912–date.

An invaluable source of news and current publications.

National Conference on Housing. Housing problems in America. Proceedings of the National Conference on Housing, 1st–8th. 1911–1920. 8 vols.

Contains papers on all phases of the housing problem.

Veiller, L. Housing reform, a hand-book for practical use in American cities. New York, Charities Publication Committee, 1910. 213 p. (Russell Sage Foundation publications.)

For his *Model Housing Law, see* **1703.**

Wood, E. E. The housing of the unskilled wage earner. New York, Macmillan Co., 1919. 305 p.

A very useful compendium.

U. S. Bureau of Industrial Housing and Transportation. Selected bibliography of industrial housing in America and Great Britain during and after the war. (*In* its Report of United States Housing Corporation, vol. 2, 1919, appendix, p. i–xix.) *Also pre-printed.*

This should be supplemented by current titles in *Housing Betterment.*

Adams, T. Industry, homes, and architecture. (Journal of American Institute of Architects, Dec. 1919, May 1920; vol. 7, p. 512–518, vol. 8, p. 173–177.)

State control of land development essential basis for right housing.

American Academy of Political and Social Science. Housing and town planning. *See* **265.**

Contains papers on housing from various angles. Note paper by A. W. Crawford, The interrelation of housing and city planning, p. 162–171.

Clarke, J. J. The housing problem: its history, growth, legislation and procedure. London, Sir Isaac Pitman & Sons, 1920. 544 p.

A comprehensive review, with full information for the preparation of schemes under the British Housing, Town Planning, etc. Act of 1919.

Eberstadt, R. Handbuch des Wohnungswesens und der Wohnungsfrage. 4. (revised) Auflage. Jena, G. Fischer, 1920. 735 p. illus., plans. — 1st ed., 1910.

The authoritative German work, with numerous bibliographies.

Ford, J. Fundamentals of housing reform. From the Smithsonian Report for 1913, p. 741–754. Washington, Govt. Printing Office, 1914. (Publication 2311.)

Brief article in American City, May 1913; vol. 8, p. 473–480. *Also reprinted.*

Hoover, H. Constructive forces in the solution of the housing problem. (United States Commerce Reports, July 16, 1921; no. 164, p. 273–278.)

Address before the National Association of Real Estate Boards, Chicago, July 15, 1921. An earlier address by Mr. Hoover before the American Institute of Architects was published in the *National Real Estate Journal,* May 23, 1921.

The **housing** famine: how to end it. A triangular debate between J. J. Murphy, Mrs. E. E. Wood, and F. L. Ackerman. New York, E. P. Dutton & Co., 1920. 246 p.

Knowles, M. Industrial housing. *See* **1697.**

Magnusson, L. Housing and the land problem. (U. S. Bureau of Labor Statistics, Monthly Review, May 1918; vol. 6, p. 1316–1325.)

Discusses aspects of the land problem in housing by industrial corporations, by copartnership companies and by government aid or ownership.

The **national** housing problem: a symposium, by Messrs. Purdy, Gries, Wagner, Haldeman, Reppert, Pirnie, Stevenson, Robinson, Bassett, Ham, and Ihlder. (*In* Proceedings of the American Society of Civil Engineers, Feb. 1922; vol. 48, p. 195–257; with discussion p. 258–263.)

Nolen, J. A good home for every wage-earner; an address delivered at the 12th annual convention of the American Civic Association. 23 p. (American Civic Association, Series II, no. 9, Apr. 1917.)

Contains list of housing developments.

Sellier, H. Le crise du logement et l'intervention publique en matière d'habitation populaire dans l'agglomération parisienne. Paris, Éditions de l'Office public d'Habitations à bon marché du Dépt. de la Seine, 1921. 1250 p. illus., plans.

Includes a review of European housing.

Whitaker, C. H., and others. The housing problem in war and in peace. Washington, D. C., Journal of the American Institute of Architects, 1918. 116 p. illus., plates, plans.

With special reference to British and American war-time problems. Contains papers by F. L. Ackerman, R. S. Childs, and Mrs. E. E. Wood. Much of the material was reprinted from the *Journal*, from Sept. 1917 to Feb. 1918.

See also **1697**, Planning of low cost residential districts; **1703**, Tenement districts; **3633** Low cost houses; **3644**, Tenement houses.

Governmental Housing and Governmental Aid

United States

1431 Ackerman, F. L. Government housing — federal, state, municipal — is it desirable? (*In* Proceedings of 7th National Conference on Housing, Housing problems in America, 1918, p. 70–81; with discussion, p. 292–296.)

Adams, T. Housing and social reconstruction. (*In Ibid.*, p. 3–37.)

Mr. Adams discusses American after-war housing problems and concludes by advocating a governmental housing program in which the Federal Government is the advisory agency and the states and municipalities the constructive agencies. Abridged in *Landscape Architecture*, Jan. 1919.

Child, S. How the United States can help build homes. (National Municipal Review, Jan. 1921; vol. 10, p. 16–22.)

Childs, R. S. What will become of the government housing? The Government's principal permanent housing projects. (National Municipal Review, Jan. 1919; vol. 8, p. 48–52.)

Includes a descriptive list of the government's housing projects and advocates future coöperative ownership. A similar article by Mr. Childs appeared in the *Survey* for Feb. 1, 1919, advocating a permanent Housing Bureau.

James, H. Lessons from government experience in housing. (National Municipal Review, Aug. 1921; vol. 11, p. 427–433.)

An address before the National Conference on Social Work.

Newman, B. J. Government housing in practice; The government urged to build homes; Government housing a failure. (Housing Betterment, Dec. 1921; vol. 10, p. 305–314.)

Olmsted, F. L., *see* **1697.**

U. S. Bureau of Industrial Housing and Transportation. Report of the United States Housing Corporation. Vol. 1. Washington, Govt. Printing Office, 1920. 391 p. illus.

Edited by James Ford, summarizing the work of all divisions.

For Vol. 2, *see* **1697.**

U. S. Bureau of Labor Statistics. Government aid to home owning and housing of working people in foreign countries. Washington, Govt. Printing Office, 1915. 451 p. (Bulletin, whole no. 158; miscellaneous series no. 8.)

U. S. Shipping Board, *see* **1697.**

War housing. Papers by F. L. Olmsted, L. Purdy, L. Veiller, and discussion. (*In* Proceedings of 10th National Conference on City Planning, 1918, p. 86–124.)

For the work promoting good housing carried on by the U. S. Dept. of Commerce through the Division of Building and Housing, *see* p. 15 of this *Manual.*

Great Britain and Canada

Childs, R. S. The new garden cities of England. (Outlook, Mar. 6, 1918; vol. 118, p. 364–366.)

Also reprinted by Committee on New Industrial Towns. Article describes new war towns and makes comparisons with American conditions.

Culpin, E. G. The remarkable application of town-planning principles to the war-time necessities of England. (Journal of the American Institute of Architects, Apr. 1917; vol. 5, p. 157–159.)

Reiss, R. L. The home I want. London, Hodder & Stoughton, 1919. 175 p. illus.

Dealt with the main facts of the British government situation in regard to housing and town planning.

Governmental Housing, etc. (cont.)

Veiller, L. How England is meeting the housing shortage. (Housing Betterment, Sept. 1920; vol. 9, no. 3, entire number. Note especially p. 292–303.)

Brought up to date in subsequent issues of *Housing Betterment.*

For the technical reports on the British war housing developments, *see* **1697.**

Canada. Orders in Council. Housing project of federal government. Orders in Council with reference to the granting of a loan of $25,000,000 for the erection of dwellings, the constitution of the Cabinet Committee on Housing and the general principles regarding provincial housing schemes. Ottawa, Mar. 1919. 15 p.

Explained in Town Planning and Conservation of Life. Apr.–June 1920; vol. 6, p. 25–27, 39–40. illus., plans.

Adams, T. Housing development as a post-war problem in Canada. (*In* Proceedings of 46th Annual Conference of Social Work, 1919, p. 241–246; with discussion, p. 247.)

Discussion of governmental aid in Canada under the above order-in-council.

Ontario. Bureau of Municipal Affairs. Report *re* housing, including act, rules and regulations, housing standards, provisions to be considered, and forms. Toronto, 1919. 134 p.

Supersedes report of Ontario Housing Committee. Followed by later reports. *See also* **1697.**

1432 An experiment in housing by a state government in the United States is described in the reports of the Massachusetts Homestead Commission (discontinued 1919). North Dakota passed a home building law in 1919 criticized in the *Journal of the American Institute of Architects,* May 1919, p. 224–225.

Municipal and coöperative housing law in. Wisconsin. (Monthly Labor Review, U. S. Bureau of Labor Statistics, Sept. 1919; vol. 9, p. 959–961.)

Also in American City, Feb. 1920; vol. 22, p. 156–157.

Municipal housing. (Housing Betterment, May 1920; vol. 9, p. 135–137.)

Legal opinion on lack of powers of municipalities in regard to constructing houses, with special reference to New York.

Williams, F. B. Must we await constitutional amendments before cities can engage in housing? (American City, Feb. 1919; vol. 20, p. 185–187.)

The experience of Europe cited as an adequate precedent for the United States.

For information on municipal housing in Europe, *see* **1430, Clark, Eberstadt,** and **Sellier.** The housing in Great Britain and Canada under the Housing Acts (*see above*) is done through local authorities. The Toronto system of municipal guarantee of bonds of a limited dividend company should be especially noted.

Housing by Employers, Limited-Dividend and Coöperative Companies

1433 Magnusson, L. Housing by employers in the United States. Washington, Govt. Printing Office, 1920. 283 p. illus. (U. S. Dept. of Labor, Bureau of Labor Statistics, Bulletin no. 263, miscel. series.)

1433.5 Waldo, F. L. Good housing that pays: a study of the aims and accomplishment of the Octavia Hill Association, 1896–1917. Philadelphia, Harper Press, 1917. 126 p. illus., plans.

The outstanding example of limited-dividend company housing.

1434 Adams, T. Partner-ownership building societies. (Conservation of Life, Oct. 1919; vol. 5, p. 69–79. illus.)

With special reference to their application to America.

Comey, A. C. Co-partnership for housing in America. (*In* American Academy of Political and Social Science, Housing and town planning, 1914, p. 140–147.) *Also reprinted.*

—— Improved housing finance — the co-partnership plan. (American City, Dec. 1913; vol. 9, p. 521–523.)

MacDougall, E. A. Coöperative housing. (*In* Proceedings of 8th National Conference on Housing, Housing problems in America, 1920, p. 46–55.)

On coöperative housing in apartments, as illustrated by Jackson Heights of the Queensboro Corporation.

Purdy, L. Own your own town. (*In Ibid.,* 7th Conference, 1918, p. 273–284; with discussion, p. 324.)

Swan, H. S. Co-partnership in England, a review of the British movement for group ownership of small homes. (Journal of the American Institute of Architects, April 1918; vol. 6, p. 183–189.)

Contains a bibliography.

Vivian, H. Co-partnership housing in Great Britain. (American City, May 1914; vol. 10, p. 433–439. illus.)

A convenient summary by a leader of the movement, the author of several earlier publications on the subject.

See also **1563.**

1434.9 Comey, A. C. New mortgages for old. (National Municipal Review, Dec. 1920; vol. 9, p. 777–780.)

An outline of a proposed Federal Mortgage Bank to finance home building.

Gries, J. M. The home buyer and his problems. (National Real Estate Journal, Nov. 6, 1922; vol. 23, no. 23, p. 41–43.)

U. S. Dept. of Commerce. How to own your home: a primer. Prepared by the Division of Building and Housing, 1923. *In press.*

Industrial Conditions

1437 Allen, L. H. Cost and value of good housing to our industrial life. (*In* Proceedings of 7th National Conference on Housing, Housing problems in America, 1918, p. 175–191.)

—— The workman's home: its influence upon production in the factory and labor turn-over. (Journal of American Society of Mechanical Engineers, June 1918; vol. 40, p. 453–458.)

Chase, J. C. Effect of proper housing on labor turnover. (Automotive Industries, June 18, 1918, p. 1126–1127.)

Result of questionnaire conducted by the Norton Co., Indian Hill, Worcester.

Fisher, B. Good housing as a reducer of labor turnover. (*In* Proceedings of 7th National Conference on Housing, Housing problems in America, 1918, p. 147–174.)

Ihlder, J. Housing and transportation problems in relation to labor placement. (*In* Annals of the American Academy of Political and Social Science, Jan. 1919; vol. 81, p. 51–55.)

Good city planning shown to be essential to the kind of living conditions that attract labor and reduce labor turnover.

1438 Davidge, W. R. Town planning and unemployment emergency measures. (*In* Town Planning Institute, London, Papers and discussions, 1921–22, vol. 8, p. 23–27; with discussion, p. 28–33.)

President's Conference on Unemployment. Report . . . Sept. 26 to Oct. 13, 1921. Washington, Govt. Printing Office, 1921. 178 p.

Public works recommended.

Food Supply and Markets

1443 American Academy of Political and Social Science. Reducing the cost of food distribution. (*In* its Annals, Nov. 1913; vol. 50, whole no. 139. 306 p.)

A collection of articles treating the subject from all points of view.

Black, Mrs. E. Communal benefits from the public control of terminal markets. (*In Ibid.*, July 1913; vol. 48, p. 149–153.)

—— A terminal market system, New York's most urgent need. Some observations, comments and comparisons of European markets. By member of the Advisory Board of the New York Terminal Market Commission. [New York, The Willett Press, 1912.] 31 p. illus., plans.

Boston City Planning Board. A summary of the market situation in Boston. Preliminary report of the Market Advisory Committee, June 1915. Boston, 1916. 175 p. diagr.

Contains bibliography.

Chicago Municipal Markets Commission. Preliminary report of the Commission appointed by Mayor Harrison to make a comprehensive study and report on the subject of municipal markets and other agencies tending to bring the producer and consumer in closer contact. Chicago, 1914, 54 p.

Folwell, A. P. Municipal markets. (*In* his Municipal engineering practice, 1916. p. 365–373. illus.)

—— Report of committee on public markets. (*In* Proceedings of American Society for Municipal Improvements, 1919, p. 1–7.)

Ford, G. B. The market of the near future; ideal plan for a system of wholesale and retail city markets. (Housewives League Magazine, Sept. 1913; vol. 2, p. 6–12. illus., plans.)

Jefferson, L. P. The community market. 22 p. illus. (Massachusetts Agricultural College, Extension Bulletin no. 21, Apr. 1918.)

Contains bibliography.

Food Supply and Markets (cont.)

King, C. L., *see* **1428.**

Marks, M. M. Reports on market system for New York City and on open markets established in Manhattan. Board of Estimate and Apportionment, Committee on Markets. Published by Borough of Manhattan, 1915. 121 p. illus.

Merchants Association of New York. Report of the food problem committee. 2d ed. Apr. 1918. 39 p. tables.

Analyzed with relation to factors of transportation, distributing centers, etc.

Miller, C. C. Municipal terminal markets. Address before Second Pan American Scientific Congress, 1915–1916. (*In* its Proceedings; *and also in* Journal of National Institute of Social Sciences, New York, July 1916; vol. 2, p. 140–154.) *Also reprinted.*

—— Saving one hundred and fifty million a year in expert marketing. (Craftsman, Nov. 1915; vol. 29, p. 125–131. illus.)

—— Wholesale terminal markets. A new idea in public markets for American municipalities — a symposium of marketing ideas in leading European cities. (American City, Apr. 1913; vol. 8, p. 355–363. illus., plan.)

New York (City) Market Commission. Report of the Mayor's Market Commission of New York City, Dec. 1913. 311 p. plans.

C. C. Miller, Chairman. Contains bibliography.

Public Health and Safety

1445 Adams, T. Town planning in relation to public safety. (Conservation of Life, Oct. 1918; vol. 4, p. 88–94.)

Also in Engineering News-Record, Sept. 26, 1918; vol. 81, p. 572–574, revised by Harland Bartholomew with special application to St. Louis.

Ball, C. B. The health value of city zoning. (National Real Estate Journal, April 10, 1922; vol. 23, p. 20–25. illus.)

Rewritten from an address before the American Public Health Association.

Ford, J. Bad housing and ill health. (Monthly Labor Review, U. S. Bureau of Labor Statistics, July 1919; vol. 9, p. 243–248.)

Address delivered before the National Conference of Social Work.

Fremantle, F. E. Public health and the garden city movement. (Garden Cities and Town Planning, Sept. 1914; N.S., vol. 4, p. 207–210.)

Olmsted, F. L. Town and city planning. (*In* Proceedings of Second Pan American Scientific Congress, Dec. 27, 1915–Jan. 8, 1916; p. 377–384.)

With special reference to public health.

Purdom, C. B. Health in the garden city. (*In* his The Garden City, 1913, p. 176–182.)

Ravenel, M. P., *ed.* A half century of public health. Jubilee historical volume of the American Public Health Association. New York, The Association, 1921. 461 p. plates.

Presents historical aspect of public health in U. S., including: Water purification by G. C. Whipple; Housing, by L. Veiller, etc.

Robertson, J. Housing and the public health. New York, Funk & Wagnalls Co., [1920]. 159 p. diagr. (English Public Health Series.)

Rosenau, M. J. Preventive medicine and hygiene. 4th ed. New York, D. Appleton & Co., 1921. 1527 p. diagr.

Section III. Public health measures and methods, p. 459–520.

Section IX–X. Refuse disposal; Sewage disposal, by G. C. Whipple, p. 1191–1224.

Whipple, G. C. *See also* his State Sanitation, vol. 1, containing report of Massachusetts Sanitary Commission, 1850, considered by him the most important sanitary document ever published.

Wynne-Roberts, R. O. Town and regional planning in relation to sanitation. (Canadian Engineer, Sept. 19, 1922; vol. 43, p. 371–374.)

For street lighting as promoting public safety, *see* **2310,** especially **Anderson.**

1447 Godfrey, H. Air. (*In* his The health of the city, Boston, Houghton Mifflin Co., 1910, p. 1–29.)

A popular summary of the dangers of its pollution.

For a thorough discussion of sunlight in cities, *see* **3470,** Orientation of buildings.

1449 Flagg, S. B. City smoke ordinances and smoke abatement. Washington, Govt.

Printing Office, 1912. 55 p. (U. S. Bureau of Mines, Bulletin no. 49.)

Information concerning the status of smoke abatement in the United States and what are believed to be the better methods for its accomplishment.

Hood, O. P. Gains against the nuisances. III. Smoke. (National Municipal Review, March 1923; vol. 12, p. 111–113.)

McBain, H. L. Expanding the police power — smoke and billboards. (*In* his American city progress and the law, 1918, p. 58–91.)

McClelland, E. H. Bibliography of smoke and smoke prevention. Pittsburgh, 1913. 164 p. (Mellon Institute of Industrial Research and School of Specific Industries. Smoke investigation. Bulletin no. 2.)

Meller, H. B. Some features of smoke regulation in Pittsburgh. (Municipal and County Engineering, Oct. 1920; p. 125–128.)

Gives figures as to annual loss per capita because of smoke nuisance in Pittsburgh.

Simon, E. D., and M. Fitzgerald. The smokeless city, with a preface by Lord Newton, chairman of the Departmental Committee on smoke abatement. London, Longmans, Green & Co., 1922. 82 p. illus.

Discusses the smoke nuisance from domestic chimneys (drawing statistics largely from Manchester, England), and suggests remedies, including central heating systems.

Smoke nuisance, by F. L. Olmsted, H. P. Kelsey and the officers of the American Civic Association, Washington, 1911. 56 p. illus. (American Civic Association, Dept. of Nuisances Publications, Series 2, no. 1.)

For **Chicago** report on smoke abatement, *see* reference on p. 44 of this *Manual.*

1450 Rablin, J. R. Dust prevention by the use of palliatives. (*In* Blanchard, A. H., *ed.*, American highway engineers' handbook, 1919, p. 747–765; with bibliography.)

1451 Godfrey, H. The city's noise. (*In* his The health of the city, 1910, p. 231–262.)

Nance, W. O. Gains against the nuisances. II. Noise and public health. (National Municipal Review, Oct. 1922; vol. 11, p. 326–332.)

Spooner, H. J. Health problems involved in noise and fatigue. *Reprinted from* The Nation's Health, Feb. and Mar. 1922; vol. 4, nos. 2 and 3. 8 p.

1452 Hardenbergh, W. A. Mosquito control for the municipality. (Municipal Journal, New York, Oct. 18, 1919; vol. 47, p. 236–240. illus.)

Hardenburg, W. E. Mosquito eradication. New York, McGraw Hill Co., 1922. 248 p. illus.

Pierce, W. D. Mosquito control; methods developed at army camps and by progressive communities. (American City, June 1919; vol. 20, p. 560–564. illus.)

1454 American Society of Civil Engineers. Final report of the special committee on floods and flood prevention; with discussion. (*In* Transactions of the American Society of Civil Engineers, Dec. 1917, p. 1218–1310. Paper no. 1400.)

Knowles, M. Floods and coördinated river planning. (Engineering News-Record, Apr. 20, 1922; vol. 88, p. 658.)

Several unpublished papers by Mr. Knowles deal with this subject.

Pittsburgh Flood Commission. References to flood literature. (*In* its Report, 1912, p. 397–432.)

Water-Supply and Disposal of Wastes

See also **1445** above, and **2880** ff.

1456 Fuller, G. W. How to improve or conserve your public water supply. (American City, June 1913; vol. 8, p. 609–612.)

An authoritative summary.

Hazen, A. Clean water and how to get it. 2d rev. and enl. ed., New York, John Wiley & Sons, 1914. 196 p. plates.

Leavitt, C. W. Water supplies and the part they play in city and county planning. (American City, May 1914; vol. 10, p. 422–426. illus.)

Saville, C. M. Water supply and the city plan. (*In* Nolen, J., *ed.*, City planning, 1916, p. 181–200. illus.)

Turneaure, F. E., and H. L. Russell. Public water-supplies: requirements, resources, and the construction of works. 2d ed. New York, John Wiley & Sons, 1908. 808 p. illus.

1464 Metcalf, L., and H. P. Eddy. Sewerage and sewage disposal, a text book. 1st ed. New York, McGraw Hill Book Co., 1922. 598 p. illus., plans, diagr.

An abridgment of the three-volume work by the same authors: *American Sewerage Practice.*

Water-Supply and Disposal of Wastes (cont.)

1472 Abercrombie, P. The relation between town planning and the work of public cleansing — a paper read at the Annual Conference of Cleansing Superintendents at Sheffield, June 1920. (Town Planning Review, Dec. 1920; vol. 8, p. 183–192. plans.)

The arrangement of low-cost dwellings in relation to the removal of wastes.

Hering, R., and S. A. Greeley. Collection and disposal of municipal refuse. 1st ed. New York, McGraw-Hill Book Co., 1921. 653 p. illus., diagr.

1474 Soper, G. A. Modern methods of street cleaning. New York, Engineering News Publishing Co., 1909. 201 p. illus.

Still an authoritative reference.

1475 Snow removal plans of states within the snow belt. (American City, Dec. 1920; vol. 23, p. 583–588. illus., map.)

Richards, H. S. Methods of snow disposal (*In* Proceedings of American Society for Municipal Improvements, 1920, p. 1–9.)

Fire Prevention

1478 Blauvelt, A. Debarment of city conflagrations. Paper before American Society of Mechanical Engineers. *Reprinted from* Quarterly of National Fire Protection Association, Boston, July 1914. 16 p.

Contains a diagram showing a central district of fire-resistive buildings in the shape of a Maltese cross.

Freitag, J. K. Fire prevention and fire protection, as applied to building construction. 2d rev. ed. New York, John Wiley & Sons, 1921. 1038 p. illus., diagr.

Includes statistics of fires and fire losses.

National Board of Fire Underwriters. Standard schedule for grading cities and towns of the United States with reference to their fire defenses and physical conditions. Adopted Dec. 14, 1916. New York, [1917]. 80 p.

—— Committee on Fire Prevention. [Reports on special cities.]

For example: Baltimore, Boston, and Buffalo, 1916.

Starrett, W. A. How to plan for fire protection in congested districts. (American City, Oct. 1914; vol. 11, p. 298–302.)

Wentworth, F. H. How the conflagration hazard may be reduced. (Fire and Water Engineering, Oct. 31, 1917; vol. 62, p. 329–330.)

Supports the Maltese cross idea (*see above*).

Public Recreation

1495 Addams, Jane. Recreation as a public function in urban communities. (American Journal of Sociology, Mar. 1912; vol. 17, p. 615–619.)

Collier, J. City planning and the problem of recreation. (*In* American Academy of Political and Social Science, Housing and town planning, 1914, p. 208–215.)

Edwards, R. H. Public recreation. Madison, University of Wisconsin, Extension Division, 1912. 217 p.

Treats the field and aims of public recreation.

A **field** of service: providing recreation a public responsibility: statement of work of Playground and Recreation Association of America and Community Service. (Parks and Recreation, Jan.–Feb. 1922; vol. 5, p. 225–227.)

Note coöperation suggested by American Institute of Park Executives.

Fisk, A. A. Public recreation; how furnished and how supported. (Parks and Recreation, Oct. 1918; vol. 2, no. 1, p. 11–13. illus.)

Hanmer and Brunner. Recreation legislation. *See* **4050.**

Haynes, R., and S. P. Davies. Public provision for recreation [in Cleveland]. Cleveland Foundation Committee, 1920. 198 p. illus., maps. (One of the 7 sections of the report of the Recreation Survey of Cleveland.)

A standard for general reference.

Knight, H. R., and M. P. Williams. Sources of information on play and recreation. rev. and enl. ed. New York, Russell Sage Foundation, 1920. 48 p.

Supersedes edition of 1915, by Hanmer and Knight.

McBain, H. L. Municipal recreation. (*In* his American city progress and the law, 1918, p. 203–227.)

McFarland, J. H. The human side of city planning. (*In* Proceedings of Second Pan American Scientific Congress, Dec. 27, 1915–Jan. 8 1916, p. 385–387.)

Planning for recreation.

Playground and Recreation Association of America and Community Service. Community recreation: suggestions for recreation and community recreation workers. New York, Dec. 1919. 122 p.

A useful summary of what community recreation is and how it works.

Richards, J. R. Recreational agencies. (Playground, Oct. 1916; vol. 10, p. 244–252.)

The publications of the Playground and Recreation Association of America, Community Service (Inc.), and Dept. of Recreation, Russell Sage Foundation should be consulted for information on various phases of public recreation.

See also **4000** ff., Parks and playgrounds.

LEGAL AND ADMINISTRATIVE CONDITIONS

1500 Shurtleff, F., and F. L. Olmsted. Carrying out the city plan, the practical application of American law in the execution of city plans. New York, Survey Associates, 1914. 349 p. (Russell Sage Foundation.)

Williams, F. B. Planning administration in Italy, Sweden and Germany; in England, Canada and France; in the United States. (*In* his Law of city planning and zoning, 1922, p. 443–605.)

A brief paper by Mr. Williams: Some aspects of city planning administration in Europe, is given in the Proceedings of the National Conference on City Planning, 1915.

1520 Bradford, E. S. Commission government and city planning; paper before National Municipal League, 1912. (American City, Aug. 1912; vol. 7, p. 113–116.)

Gilbert, A. B. American cities; their methods of business. New York, Macmillan Co., 1918. 240 p.

Gilbertson, H. S. The political background for city planning. (American City, May 1915; vol. 12, p. 394–397.)

Munro, W. B. Municipal government and administration. New York, Macmillan Co., 1923. *In press.*

Includes chapter on city planning.

—— Principles and methods of municipal administration. New York, Macmillan Co., 1916. 491 p., illus., plans.

Note especially: City planning, p. 30–73, and Streets, p. 74–121.

Federal, State, and Metropolitan Authorities

1521 Adams, T. The planning of land in relation to social problems. (*In* Proceedings of American Society for Municipal Improvements, 1919, p. 351–362. map.)

Defines scope of planning work for federal state, regional, and local authorities.

—— State, city, and town planning. (*In* Proceedings of 8th National Conference on City Planning, 1916, p. 119–146. illus.) *Also reprinted.*

Inhibition—permission—compulsion. (American City, Apr. 1916; vol. 14, p. 325–327.)

States arguments for obligatory planning of urban areas as proposed in England.

1522 Adams, T. The beginnings of town planning in Canada. (*In* Proceedings of 8th National Conference on City Planning, 1916, p. 222–230; with discussion, p. 230–241.)

On governmental promotion of town planning. The reports of the Canadian Commission of Conservation (discontinued 1921) should be consulted for the history of this work. After that date, work transferred to National Parks Branch of Dept. of Interior. (*See* note in *Journal of Town Planning Institute of Canada*, Oct. 1921.)

Reiss, R. L. The housing and town-planning department of the Ministry of Health. (Garden Cities and Town Planning, June 1919; vol. 9, p. 109–113. chart.)

The annual reports of the Ministry of Health (1st, 1919–20) contain a section on town planning.

U. S. Dept. of Commerce. For an account of the services in promoting city planning rendered by the Division of Building and Housing, *see* p. 15 of this *Manual.*

1523 Pennsylvania. State Bureau of Municipalities. Lohman, K. B. State-aid in city planning: Pennsylvania's pioneer movement fosters park development. (Park International, Sept. 1920; vol. 1, p. 156–158.)

—— Woodward, J. F. State aid for Pennsylvania municipalities. (American City, June 1922; vol. 26, p. 576–578. plans.)

Federal, State, Metropolitan Authorities (cont.)

Massachusetts. Dept. of Public Welfare. Report of the Division of Housing and Town Planning. 1920.

This first report gives (p. 7–8) a brief account of the organization of the Division, which superseded the Massachusetts Homestead Commission (abolished 1919. — *See* its published annual reports.)

Manitoba. Stoughton, A. A. The town planning comptroller and his work — Manitoba appoints town planning comptroller. (Journal of Town Planning Institute of Canada, Oct. 1921; vol. 1, no. 6, p. 8–10.)

1524 **Wisconsin** has a law creating county rural planning committees, and in **Ohio** (Apr. 1923), regional planning commissions may be created. **Massachusetts** (May 1923) has a metropolitan planning authority (*see* **1525, Boston**). Legislation is being sought for the Pittsburgh and Los Angeles county authorities.

1525 Boston Chamber of Commerce. Committee on Municipal and Metropolitan Affairs and Committee on Public Utilities. Metropolitan planning and development in Boston and its environs. 1922. 32 p. plans, diagr.

Bill creating a Metropolitan Planning Division in the Metropolitan District Commission signed May 17, 1923.

Donley, W. M. Main highways in metropolitan districts, construction, maintenance, and control. (*In* Proceedings of 13th National Conference on City Planning, 1921, p. 134–136.)

On the need of a central authority.

Gundlach, J. H. A city's control of outlying districts; abstract of address before League of American Municipalities. (American City, May 1911; vol. 4, p. 224–226.)

Hooker, G. E. City planning and political areas. (National Municipal Review, May 1917; vol. 6, p. 337–345.)

Condensed in American City, Feb. 1917; vol. 16, p. 122–125.

Knowles, M. The metropolitan district idea. Reprint of report to the Essex Border Utilities Commission, Ontario, Canada. Pittsburgh, 1919. 27 p.

Massachusetts. Metropolitan District Commission. Report of the commission to the Massachusetts legislature. 1896. Boston, Wright & Potter, State Printers, 1896. 100 p.

Appendix on foreign municipal extensions.

Woolston, H. B. Municipal zones; a study of the legal powers of cities beyond their incorporated limits. (National Municipal Review, July 1914; vol. 3, p. 465–473.)

See also **6100,** Regional planning.

Municipal Departments and Commissions

1535 Baker, M. N. City planning. (*In* Woodruff, C. R., *ed.*, A new municipal program, 1919, p. 218–227.)

Discusses the most efficient city planning agency for the American municipality under present conditions, with special reference to its place in the commission-manager form of government and explains the sections on city planning of National Municipal League Model City Charter appended (p. 360–362).

McGee, W. A. The organization and functions of a city planning commission. (*In* Proceedings of 5th National Conference on City Planning, 1913, p. 73–85; with discussion, p. 85–92.)

Condensed in American City, June 1913; vol. 8, p. 581–583.

National Conference on City Planning. Committee on Administrative Procedure. Tabulation of results of questionnaire on the constitution and powers of a city planning authority. (*In* Proceedings of 7th National Conference on City Planning, 1915, p. 274–299.)

Whitten, R. H. The constitution and powers of a city planning authority. (*In Ibid.*, p. 135–143; with discussion, p. 155–197.)

Also in City Plan, June 1915; vol. 1, p. 7–12.

See also **714** and **1500.**

Art Commissions

1538 Crawford, A. W. Art commissions: the increasing usefulness and value of city art juries in matters of public adornment. (American Review of Reviews, July 1921; vol. 64, p. 61–67. illus.)

—— The value of art commissions in city planning. (*In* Proceedings of 14th National Conference on City Planning, 1922, p. 148–158.)

The **difference** between the functions of the city art commission and a city plan commission. Discussion led by F. T. Bigger. (*In Ibid.*, 1917, p. 228–236.)

Ford, G. B. Art commissions and city planning. (American City, Feb. 1914; vol. 10, p. 117–118.)

Municipal art commissions. (*In* U. S. Bureau of Manufactures, Municipal art commissions and street lighting in European cities, 1910, Special consular reports, vol. 42, pt. 1, p. 5–13.)

National Conference of Art Commissions. Art commissions, city and state; suggestions as to their organization and scope. Report of a committee appointed at a conference of members of art commissions, Dec. 1913. 23 p.

New York (City). Laws relating to art commissions. Printed for the Art Commission of the City of New York, May 1914. 53 p.

Of special interest are the published reports of the **National** Commission of Fine Arts (Washington), of the **Philadelphia** Art Jury, and the **New York** (City) Art Commission.

Relation of Municipality to Public Utilities

1541 Williams, F. B. Public utilities. (*In* his Law of city planning and zoning, 1922, p. 161–170.)

Wilcox, D. F. The city's part in the development and control of public utilities. (New Jersey Municipalities, Mar. 1918; vol. 2, p. 69–70, 88–90.)

ECONOMIC AND FINANCIAL CONDITIONS

1550 For a comprehensive outline of the economic data necessary for city planning *see* Stewart report in **Plan of New York** Progress Report, **815.**

Urban Land

1563 Adams, T. Municipal and real estate finance in Canada. The need of town planning to arrest growing financial difficulties in cities and towns. Canada, Commission of Conservation, 1921. 15 p.

—— Should governments conscript land or regulate its use? (Conservation of Life, July 1918; vol. 4, p. 59–61.)

> "In both the cities and the rural districts it should be made illegal in future for any person to acquire a title to any area of land except for use."

See also **1430.**

Cadbury, G., Jr. [Municipal ownership of land.] (*In* his Town planning, with special reference to the Birmingham schemes, 1915, p. 140–146.)

Committee on New Industrial Towns, New York City. Publications (most of which were reprinted by the Committee), as follows:

The unearned increment in Gary, by R. M. Haig. (Political Science Quarterly, Mar. 1917.)

The new garden cities of England, by R. S. Childs. (Outlook, Mar. 6, 1918.)

How shall the Government dispose of its industrial housing, by R. S. Childs. (Reprint of article entitled: Group ownership of housing, New Republic, Mar. 30, 1918.)

A self-owning town. A report to Mr. F. P. Palen, Vice-President Newport News Shipbuilding and Dry Dock Company, regarding "A co-partnership scheme for Hilton."

Copartnership in England, by H. S. Swan. (Journal of the American Institute of Architects, Apr. 1918.)

The unearned increment in Lackawanna, by H. S. Swan. (National Municipal Review, Mar. 1919.)

A memorandum to the Steel Corporation: a plan for the conservation of future increments of land values at Ojibway and for conversion of the same into additional revenues for community purposes. [1919.]

A series of syndicated articles Self-owning Towns of Tomorrow appeared in the press under the auspices of this committee.

Gray, G. H. The land question as related to city planning and housing. (Journal of the American Institute of Architects, Oct. 1921; vol. 9, p. 330–337.)

Also in Engineering and Contracting, Dec. 28, 1921; vol. 56, p. 590–593.

Howe, F. C. Municipal real estate policies of German cities. (*In* Proceedings of 3d National Conference on City Planning, 1911, p. 14–26.)

Hurd, R. M. Principles of city land values. New York, The Record and Guide, 1903. 159 p. illus., plans. — Also later impressions. *Out of print.*

Magnusson, L. Housing and the land problem. (U. S. Bureau of Labor Statistics, Monthly Review, May 1918; vol. 6, p. 268–277.)

Urban Land (cont.)

Purdy, L. Own your own town. (*In* Proceedings of 7th National Conference on Housing, Housing problems in America, 1918, p. 273–284; with discussion by R. S. Childs, p. 324–325.)

An earlier article on self-owning towns by Mr. Purdy was published in the *Annals* of the American Academy of Political and Social Science for July 1918.

A **symposium** on the municipal ownership of land. (Town Planning Review, Jan. 1913; vol. 3, p. 232–239.)

Town planning and land purchase; Mr. T. C. Horsfall on Germany's experience: How to keep rents low. (Garden Cities and Town Planning, Mar. 1908; N.S., vol. 3, p. 27–28.)

Unwin, R. The relation of land values and town planning. (*In* American Academy of Political and Social Science, Housing and town planning, 1914, p. 17–24.)

—— Town planning in relation to land values. (*In* Town Planning Institute, London, Papers and discussions, 1914–15; vol. 1, p. xii–xvii.)

Also in Town Planning Review, July 1914; vol. 5, p. 107–114.

Zangerle, J. A. Rules and principles with land and building values controlling the 1917 "Community Assessment" of Cuyahoga County (Cleveland, Ohio). 34 p. + maps.

Of particular interest for its outline of a fair method of assessing real property, with schedules and illustrations of building types.

The courses in "Land Economics" at the University of Wisconsin should be noted.

Taxation in Relation to Development

1568 Adams, T. Town planning in relation to land taxation: cities should have agricultural zones — examples of Canadian cities. (National Municipal Review, Mar. 1919; vol. 8, p. 109–113.)

Fels, J. Taxation, housing, and town planning. (Landscape Architecture, Oct. 1913; vol. 4, p. 1–11.)

Paper given at International Congress, Ghent, 1913 (*see* **40**) and published in its Proceedings.

Howe, F. C. Municipal taxation and its effect on town planning, city building, and the housing question. (*In* Proceedings of 2d National Conference on City Planning, 1910, p. 87–95.)

Huntington, C. W. Enclaves of single tax, being a compendium of the legal documents involved together with historical description. Published by Fiske Warren, Harvard, Mass., 1921. 150 p. plan.

Marsh, B. C. Industry and city planning. (Town Development, Aug. 1915; vol. 15, p. 115–116.)

Present system of taxation as hampering industry.

Preliminary to housing reform. (New Republic, June 7, 1919; vol. 19, p. 170–171.)

Proposing special taxation of unimproved land in cities.

Purdy, L. Exemption from taxation and other subsidies. (*In* Proceedings of 8th National Conference on Housing, Housing Problems in America, 1920, p. 3–18; with discussion by R. E. Simon, p. 227–234.)

Swan, H. S. How much are land and buildings taxed? (American City, May 1919; vol. 20, p. 433–434.)

Facts based upon survey made by writer of cities having over 30,000 population.

Taxation and housing. Papers by C. B. Fillebrown and E. R. A. Seligman. (*In* Proceedings of 4th National Conference on Housing, Housing Problems in America, 1915, p. 92–108; with discussion, p. 109–112.)

Wilcox, D. F. Taxation of real estate values and its effect on housing. (*In* American Academy of Political and Social Science, Housing and town planning, 1914, p. 34–40.)

Financing of Municipal Improvements

1570 Adams, T. How to carry out the town plan at least cost — a discussion. (*In* Proceedings of 9th National Conference on City Planning, 1917, p. 258–263.)

Crawford, A. W. Certain aspects of city financing and city planning. (*In* Proceedings of 6th National Conference on City Planning, 1914, p. 54–67; with discussion, principally on bond issues, p. 67–83.)

Also in National Municipal Review, July 1914; vol. 3, p. 474–483.

Godward, A. C. Financing park acquisitions and improvements. (Parks and Recreation, May–June 1922; vol. 5, p. 501–503.)

Lewis, N. P. Financing a city plan. (*In* his Planning of the modern city, 2d rev. ed., 1923, p. 367–396.)

—— Financing of highway improvements. (*In* Blanchard, A. H., *ed.*, American highway engineers' handbook, 1919, p. 1485–1514.)

—— Paying the bills for city planning. — Paying the bills for city planning from a Boston viewpoint, by J. A. Gallivan. (*In* Proceedings of 4th National Conference on City Planning, 1912, p. 43–68; with discussion on both papers. p. 68–83.)

Lewis paper condensed in American City, July 1912; vol. 7, p. 31–35.

Methods of taxation of land and municipal ownership in Continental countries. (*In* U. S. 61st Congress. Senate Document 422, City planning, 1909, p. 41–48.)

Purdy, L. Condemnation, assessments, and taxation in relation to city planning. (*In* Proceedings of 3d National Conference on City Planning, 1911, p. 118–125; with discussion, p. 125–130.)

St. Paul Association of Public and Business Affairs. Report of the special committee of the city planning subdivision on methods for paying the costs of acquiring and improving parks, parkways and boulevards. [1920.] *Mimeographed.* 17 p.

Tabulation of practice in American cities.

Summarized in National Municipal Review, Apr. 1920; vol. 9, p. 239.

Shurtleff, F. City financing and city planning. (*In* Nolen, J., *ed.*, City planning, 1916, p. 387–403.)

Swan, H. S. The administrative and financial machinery for carrying out the city plan. (American City, June 1922; vol. 26, p. 579–582. illus., plans.)

Williams, F. B. City planning finance. (*In* his Law of city planning and zoning, 1922, p. 357–379.)

1580 Doell, C. E. Financing neighborhood playgrounds by special assessment. (Parks and Recreation, May–June 1922; vol. 5, p. 503–506. diagr.)

How will our cities pay for future improvements and public services? (American City, Dec. 1918, Jan. 1919; vol. 19, p. 451–455, vol. 20, p. 43–47.)

Gives present practice in special assessments in different states.

Kessler, G. E. Actual distribution of the cost of Kansas City parks and boulevards. (*In* Proceedings of 5th National Conference on City Planning, 1913, p. 140–147; with introduction by F. L. Olmsted, Jr., p. 138–139, and discussion, p. 147–162.)

Condensed in American City, June 1913; vol. 8, p. 575–581. illus., plan.

National Municipal League. Committee on Sources of Revenue. Special assessments: assessments for benefit as a means of financing municipal improvements. (National Municipal Review, Feb. 1922; vol. 11, p. 43–58.)

Purdy, L. The assessment of real estate. Supplement to National Municipal Review, Sept. 1919; vol. 8, no. 7, p. 511–527.

Shurtleff, F. The distribution of the cost of land acquirement. (*In* his Carrying out the city plan, 1914, p. 52–102.)

1595 Appropriations for plans commissions. (City Plan, Aug. 1917; vol. 3, no. 2, p. 7–9.)

Appropriations for city planning commissions. (American City, Nov. 1920; vol. 23, p. 482.)

Some of the largest U. S. cities.

Shurtleff, F. Municipal appropriations for city planning in 1920. (*In* Kimball, T., *ed.*, Municipal accomplishment in city planning, 1920, p. 77–78.)

For up-to-date-information, *see* p. 51 of this *Manual.*

ZONING: SUBDIVISION OF CITY AREA INTO FUNCTIONAL DISTRICTS

For zoning laws and court decisions, *see* **765.**

1600 Bassett, E. M. Zoning. Rev. ed. National Municipal League, Technical pamphlet series no. 5, 1922. p. 315–341.

The most important general treatise on the subject, containing a statement of principles, program of action, legal basis, and bibliography, completely revised from the first edition of May 1920, Supplement to *National Municipal Review.*

U. S. Dept. of Commerce. Zoning, a selected bibliography. Preliminary ed., Apr. 10, 1922. *Mimeographed.* 12 p.

Prepared for Secretary Hoover's Advisory Committee on Zoning by T. Kimball.

—— A Zoning primer, by the Advisory Committee on Zoning, appointed by Secretary Hoover. Washington, Govt. Printing Office, 1922. 7 p. illus.

For the membership of the Committee, *see* p. 16 of this *Manual.*

—— Division of Building and Housing. Zoning progress in the United States: State laws and municipal ordinances, Jan. 1923. *Mimeographed.* 8 p.

For an account of the work of this Division, *see* p. 15 of this *Manual.*

Ackerman, F. L. Preliminary to city planning—zoning. (Journal of the American Institute of Architects, Jan. 1920; vol. 8, p. 15–18.)

A protest against zoning under our present system of land development.

Adams, T. Efficient industry and wholesome housing true aims of zoning. (American City, March 1921; vol. 24, p. 287, 289.)

For Mr. Adams' discussion of the use of the term zoning, *see* **300.**

American City Bureau. The remarkable spread of zoning in American cities. (American City, Dec. 1921; vol. 25, p. 456–458.)

A list of cities having zoning ordinances enacted or in preparation, prepared from lists by Messrs. Cheney, Hinckley, and Ball. For zoning ordinances enacted since 1921, see article by M. T. Voorhees in *Engineering News Record,* Sept. 28, 1922, and U. S. Dept. of Commerce mimeographed list of Jan. 1923.

American Civic Association. Zoning as an element in city planning, and for protection of property values, public safety, and public health, by L. Purdy, H. Bartholomew, E. M. Bassett, A. W. Crawford, H. S. Swan. 48 p. (Series II, no. 15, June 30, 1920.)

Atlanta City Planning Commission. The Atlanta zone plan. Report outlining a tentative zone plan for Atlanta, by R. H. Whitten, consultant, 1922. 18 p. illus.

"What zoning is and does," p. 5–8. With the illustrations taken from the Cleveland report, this report forms one of the strongest arguments for zoning yet issued. *See also* **1619.**

Ball, C. B. City zoning. (Health, Feb. 1922; vol. 2, p. 26–28. illus.) *Also reprinted.* Contains "Zoning facts boiled down," originally published in Bulletin of Chicago School of Sanitary Instruction, Dec. 24, 1921.

—— A flight of zoning steps. Steps to take in zoning your city. (Housing Betterment, Nov. 1922; vol. 11, p. 394.)

—— The health value of city zoning. (National Real Estate Journal, Apr. 10, 1922; vol. 23, p. 20–25.)

Rewritten from an address before the American Public Health Association.

—— The need and nature of city zoning; an address delivered at the fourth annual convention of the Real Estate Association of Illinois. (*Ibid.*, Feb. 14, 1921; vol. 22, no. 4, p. 16–17.)

Bartholomew, H. Zoning experiences in many cities. (*Ibid.*, Mar. 1, 1920; vol. 21, no. 5, p. 19–22.)

—— Zoning in the location of public parks. (Park International, July 1920; vol. 1, p. 56–59. illus.)

Bassett, E. M. Zoning *versus* private restrictions. (National Real Estate Journal, Jan. 2, 1922; vol. 23, no. 1, p. 26.)

Prevention of blighted districts.

Baumeister, R. Gruppirung von Bezirken mit verschiedener Bestimmung. (*In* his Stadt-Erweiterungen, 1876, p. 79–86.)

The historic reference on zoning.

Cheney, C. H. How zoning standardizes values. (National Real Estate Journal, Nov. 1919; vol. 20, no. 4, p. 21–24. illus.)

—— Procedure for zoning or districting of cities. 16 p. (California Conference on City Planning, Bulletin no. 2, Sept. 1917.)

Contains: Reasons for zoning, by national authorities.

—— Removing social barriers by zoning. (Survey, May 22, 1920; vol. 44, p. 275–278. illus., plan.)

A reply to the Lasker article of Mar. 6, 1920, with restatement by Mr. Lasker, p. 278–279.

Chicago Citizens' Zone Plan Conference. Report of Proceedings, Dec. 16 and 17, 1919. Chicago, Printed by Union League Club. 94 p. *Out of print.*

Contains a series of addresses on various aspects of the subject by leading authorities to convince Chicago of the value of zoning.

Chicago Real Estate Board, *see* **3480.**

Comey, A. C. The value of zoning to business. (Current Affairs, Boston Chamber of Commerce, Feb. 12, 1923; vol. 13, no. 39, p. 6–7, 13. illus.) *Also reprinted.*

Ford, G. B. New York City building zone resolution, restricting the height and use of buildings and prescribing the minimum sizes of their yards and courts, with explanatory notes that will be helpful to owners, builders, and architects. Revised for second edition. New York, New York Title and Mortgage Company, 1920. 29 p. + maps. illus., diagr.

An interesting example of a local zoning handbook.

—— Zoning is so logical and reasonable that it must come sooner or later — it is inevitable. Paper and discussion at 14th Annual Convention of National Association of Real Estate Boards. (National Real Estate Jour., Sept. 26, 1921; vol. 22, no. 20, p. 41–45.)

Grinnalds, J. C. [Series of articles on Zoning and its advantages.] (Municipal Journal, Baltimore, beginning Oct. 8, 1920.)

Haldeman, B. A. The relation of zoning to the housing problem. (*In* Proceedings of the American Society of Civil Engineers, Feb. 1922; vol. 48, p. 213–218.)

States economic, social, etc., advantages.

Hurd, R. M. Directions of growth; Distribution of utilities. (*In* his Principles of city land values, 1903, p. 56–88. illus., plans.)

Ihlder, J. City zoning is sound business. (Nation's Business, Nov. 1922, p. 19–20.) *Also reprinted.*

—— The proposed zoning ordinance for Philadelphia. A letter to the Real Estate Board from the Philadelphia Housing Association. [1920.] 11 p.

Advantages of zoning to developers of real estate suggested by questions and comparisons.

Lasker, B. Unwalled towns. (Survey, March 6, 1920; vol. 43, p. 675–680, 718. illus.)

Suggests that social barriers might be raised by zoning. For Mr. Cheney's reply to this article, *see* above.

McFarland, J. H. City housekeeping: protection to the home investor through zoning. (Parks and Recreation, Mar.–Apr. 1922; vol. 5, p. 346–348.)

National Conference on City Planning. Proceedings — 4th, 1912, p. 173–188: The control of municipal development by the "zone system" and its application in the United States, by B. A. Haldeman; with discussion, p. 188–191. (*Also condensed in* American City, Sept. 1912.)

—— 6th, 1914, p. 92–111: Protecting residential districts, by L. Veiller; with discussion, p. 111–132. (*Also published separately* by National Housing Association.)

—— 8th, 1916, p. 147–158: Districting by municipal regulation, by L. Veiller; with discussion, p. 158–176. —p. 177–183: Districting through private effort, by A. S. Taylor.

—— 9th, 1917, p. 168–169: Districting and zoning of cities, introductory remarks, by Henry D. Ashley. — p. 170–182: Districting and zoning of cities, by Lawson Purdy. — p. 183–194: Districting progress and procedure in California, by C. H. Cheney. — p. 195–198: Building heights in Washington, D. C., by R. B. Watrous. — p. 199–214: Constitutional limitations on city planning powers, by E. M. Bassett; with discussion, p. 214–227, 289–298. (Bassett paper *also published separately* by City of New York.)

—— 10th, 1918, p. 34–39: The zoning of residence sections, by R. H. Whitten; with discussion, p. 39–46. — p. 47–55: Industrial zoning in practice, by H. S. Swan; with discussion, p. 55–71. (Swan paper *condensed in* American City, July 1918.)

Zoning, etc. (cont.)

National Conference on City Planning. Proceedings — 11th, 1919, p. 159–161: Residential zoning, introductory statement, by A. C. Comey. — p. 162–185: Zoning in practice, by C. H. Cheney; with discussion, p. 185–194. (Cheney article *also in* National Municipal Review, Jan. 1920; vol. 9, p. 31–43.)

—— 12th, 1920, p. 133–138: Zoning from the viewpoint of the lender on real estate mortgages, by W. L. Ulmer. — p. 139–141: The need of zoning in Cincinnati, by B. Marquette; with discussion, p. 142–147. — p. 148–153: Recent court decisions on zoning, by A. Bettman.

—— 13th, 1921, p. 22–30: Zoning and living conditions, by R. H. Whitten. — p. 31–42: The effect of zoning upon living conditions, by H. S. Swan. — p. 43–48: How zoning affects living conditions, by G. B. Ford; with discussion, p. 59–69, 151–154. — p. 155–161: The Pittsburgh zoning ordinance, by J. M. Clark.

—— 14th, 1922, p. 159–173: The question box.

15th, 1923, *see* **765, Bassett.**

New York (City) Heights of Buildings Commission. Report to the Committee on the height, size and arrangement of buildings of the Board of Estimate and Apportionment of the city of New York. Dec. 23, 1913. 295 p. illus.

Comprehensive information on zoning to 1913 in Europe and America, compiled for the promotion of zoning in New York. An historic document.

—— **Commission on Building Districts and Restrictions.** Final report, June 2, 1916. New York, Board of Estimate and Apportionment Committee on the City Plan, 1916. 100 p. illus., plans.

A compendious record of New York procedure, and a valuable work of reference on zoning.

Nichols, J. C. Zoning, the realtor's part in planning "the city efficient" out of which grows "the city beautiful." Paper and discussion at 14th annual convention of National Association of Real Estate Boards. (National Real Estate Journal, Oct. 10, 1921; vol. 22, p. 36–40.)

Purdy, L. The zoning of cities. (*In* Proceedings of 6th National Conference on Housing, Housing problems in America, 1917, p. 214–228.)

Rankin, E. S., *see* **2850.**

Rider, H. A. Bibliography on residential and industrial districts in cities. (Special Libraries, Jan. 1916; vol. 7, p. 2–7.)

Swan, H. S. Does your city keep its gas range in the parlor and its piano in the kitchen? How a zoning law, administered at nominal expense, will promote orderliness in community development, help real estate and benefit the entire city. (American City, Apr. 1920; vol. 22, p. 339–344. illus.)

Unwin, R. Zoning proposals. (Town Planning Institute, London, Papers and discussions, 1921–22, vol. 8, p. 115–123; with discussion, p. 124–133.)

Voorhees, M. T. Zoning progress in the United States. (Engineering News-Record, Sept. 28, 1922; vol. 89, p. 519; and editorial, p. 501.)

Whitten, R. H. Regional zoning. *See* **6100.**

Zoning or districting of cities; papers and discussions at first meeting of American City Planning Institute held in New York City, Nov. 24. (City Plan, Dec. 1917; vol. 3, no. 3, p. 1–12.)

For pamphlets issued against proposed zoning ordinances, note especially Philadelphia and Detroit.

For legislation and court decisions relating to zoning, *see* **765.**

For technical procedure in the preparation of surveys and plans for zoning, *see* **870.**

For articles on the effect of the New York zoning regulations on the form of high buildings, *see* **3455.**

Special Problems

1613 Coolidge, J. R., Jr. The problem of the blighted district. (*In* Proceedings of 4th National Conference on City Planning, 1912, p. 100–106; with discussion, p. 106–115.)

Cunliffe, N. Blighted districts in St. Louis. (*In* Proceedings of 10th National Conference on City Planning, 1918, p. 72–74; with discussion, 74–75.)

Goodrich, E. P. War housing by rejuvenating blighted districts. (Landscape Architecture, Apr. 1918, vol. 8; p. 125–132.)

Great Britain. Committee on Unhealthy Areas, *see* **1704.**

Re-planning and re-development in existing centres; two papers by W. T. Lancashire and H. V. Lanchester. (*In* Town Planning Institute, London, Papers and discussions, 1914–15, p. 89–105; with discussion, p. 106–111. illus., plan.)

Summarized in Municipal Journal, London, Apr. 23, 1915; vol. 24, p. 379–380.

Stanton, W. C. Blighted districts in Philadelphia. (*In* Proceedings of 10th National Conference on City Planning, 1918, p. 76–85.)

1617 Adams, T. Reconstruction and redevelopment at Halifax. Extract from preliminary report to Commission of Conservation. (Conservation of Life, Jan. 1918, vol. 4, p. 22–24.)

Later article, *Ibid.*, p. 82–88. illus., plans.

Crane, J. L., Jr. How Halifax was rebuilt. (Municipal and County Engineering, Sept. 1921; vol. 61, p. 102, 104. illus.)

Kelsey, F. W. Constantinople's burnt areas provide unique opportunity for large-scale replanning. (American City, July 1922; vol. 27, p. 1–4. illus., plan.)

Ross, G. A. Planning problems of industrial cities — The Halifax disaster and rehousing. (*In* Proceedings of 11th National Conference on City Planning, 1919, p. 32–46.)

Williams, F. B. Replanning Salonika after the great fire. (National Municipal Review, May 1922; vol. 11, p. 149–150.)

Planning reports after fires were prepared for San Francisco (1905) and Baltimore (1906, etc.).

1619 The **Atlanta** zoning plan. (Survey, Apr. 22, 1922; vol. 48, p. 114–115. illus.)

A discussion of the racial districts provided in the plan.

Race segregation ordinances. (American City, Sept. 1918; vol. 19, p. 237.)

The **unmaking** of a myth: Chicago's race riots: an analysis and a program. (Survey, Oct. 1922; vol. 49, p. 46–49. maps.)

Signed B. L.

Administrative Centers. Community Centers

1627 Lewis, N. P. Common sense of civic centers. (*In* Proceedings of 11th National Conference on City Planning, 1919, p. 195–205.)

Main and subsidiary administrative centers a part of the city plan.

Abstracts also in American City, July 1919; vol. 21, p. 6; *and* Engineering News-Record, June 5, 1919; vol. 82, p. 1099.

Robinson, C. M. The administrative centre. (*In* his Modern civic art, 1918, etc., p. 81–98. illus.)

Unwin, R. Of centres and enclosed places. (*In* his Town planning, 1909, etc., p. 175–234. illus., plans.)

Discusses the location of centers of town life.

Warner, J. de W. Civic centers. (Municipal Affairs, Mar. 1902; vol. 6, p. 1–23. plans.)

A brief historical review.

Simkhovitch, M. K. Toward a neighborhood program. (Survey, Dec. 28, 1918; vol. 41, p. 394–395.)

On working out an organization of city neighborhood life, with central services.

Ward, E. J. The social center, New York, D. Appleton & Co., 1917. 359 p. (National Municipal League Series.)—First impression, 1913.

Suggestive as to the functions of a center for community life.

For information on architectural grouping of public buildings in civic centers, *see* **3700** ff.

See also **3575.**

Business Districts

1630 Baxter, S. Covered ways for a business district. (*In* Proceedings of 2d National Conference on City Planning, 1910, p. 149–152.)

Bright, J. I. Urban congestion — a study of its causes and suggestions for its eradication. (American Architect, May 25, 1921; vol. 119, p. 581–583.)

Describes a proposal for the central business district of Philadelphia.

Hurd, R. M. Currents of travel [business districts]. (*In* his Principles of city land values, 1903, p. 89–96. map.)

With especial reference to retail business.

Robinson, C. M. Street plan of business district; Architecture in business district; Furnishings of the street; Adorning with fountains and sculpture. (*In* his Modern civic art, 1918, etc., p. 99–183. illus., plans.)

Business Districts (cont.)

For special studies of business districts, see city planning reports (including those on transportation) for Pittsburgh, Chicago, Boston, Philadelphia, Dallas, and especially New York.

For discussion of problems arising from high buildings, *see* **3480;** for problems of traffic congestion, *see* **2076.**

See also **2161,** Arcades; **2230,** Business streets; **2420,** Interurban terminals.

1631 Bassett, E. M. Zoning protects the small storekeeper. (Municipal Journal, Baltimore, Mar. 24, 1922; vol. 10, no. 6, p. 5.)

Farr, A. A plea for better business centers in our suburban towns. (Architect and Engineer of California, Dec. 1918; vol. 55, p. 81–85. illus., plans.)

Heyworth, J. O. Business and beauty combined in a small town civic center. (American City, Town and County Edition, July 1919; vol. 21, p. 26–27. illus., plan.)

Huddleston, G. The business centres of garden cities. (Garden Cities and Town Planning, Mar. 1912; N.S. vol. 2, p. 64–68. plan.)

Industrial Districts

1650 Bennett, E. H. Planning for distribution of industries. (*In* American Academy of Political and Social Science, Housing and town planning, 1914, p. 216–221.)

Chapin, H. F. A unique industrial center — the midway district of St. Paul and Minneapolis. (American City, Jan. 1917; vol. 16, p. 20–22. illus., map.)

Ford, J. Residential and industrial decentralization. *See* **1426.**

Gaunt, W. H. Town planning with reference to factory development and the distribution of goods. (Town Planning Institute, London, Papers and discussions, 1919–20; vol. 6, p. 81–88. plan; with discussion, p. 90–94.)

Hoover, A. P. Industrial city planning, a vital need for present and future commercial development. (Architecture and Building, Mar. 1918; vol. 50, p. 21–24.)

—— The industrial terminal and its relation to the city plan. (*In* Proceedings of 9th National Conference on City Planning, 1917, p. 28–42.)

Also in City Plan, Apr. 1917; vol. 3, no. 1, p. 4–11.

Joy, S. S. The central manufacturing district, Chicago. I. General features of operation. (Architectural Forum, Apr. 1921; vol. 34, p. 123–128. illus., plan.)

Marsh, B. C. Industry and city planning. *See* **1568.**

Pratt, E. E. Relief [of congestion] through proper distribution of factories. (*In* Proceedings of 2d National Conference on City Planning, 1910, p. 107–112.)

Swan, H. S. Industrial zoning in practice. (*In* Proceedings of 10th National Conference on City Planning, 1918, p. 47–55; with discussion, p. 55–71.)

Also in American Architect, Apr. 2, 1919; vol. 115, p. 500–503; *and* Municipal Journal, New York, Sept. 14, 1918; vol. 45, p. 206–208.

Toronto Harbor Commissioners. A district created for manufacturers. Toronto, 1915. 31 p. illus., map.

One of the objects of the creation of the Commissioners in 1911 was the development and administration of the Toronto Harbor Industrial District.

Wadsworth, G. R. Railroads and industrial districts. (*In* Nolen, J., *ed.*, City planning, 1916, p. 264–278. illus., plans.)

The city planning reports of St. Louis, Philadelphia, and Newark might be especially mentioned for suggestions on the development of new industrial districts.

See also **1426, 5350.**

Residential Districts

1675 Robinson, C. M. Street plotting among the homes; On great avenues; On minor residential streets; Among the tenements. (*In* his Modern civic art, 1918, etc., p. 185–268. illus.)

Veiller, L. Protecting residential districts. (*In* Proceedings of 6th National Conference on City Planning, 1914, p. 92–111; with discussion, p. 111–132.) *Also reprinted.*

An early discussion of the subject.

Whitten, R. H. The zoning of residence sections. (*In* Proceedings of 10th National Conference on City Planning, 1918, p. 34–39; with discussion, p. 39–46.)

1677 Cartwright, F. B. Population density as a basis for housing regulations. Intensive Rochester study indicates that improved transit, industrial decentralization, zoning and other current changes render dense tenement populations unnecessary in most cities. (Engineering News-Record, Aug. 25, 1921; vol. 87, p. 318–322. illus.)

Marsh, B. C. Can land be overloaded? (*In* American Academy of Political and Social Science, Housing and town planning, 1914, p. 54–58.)

Newman, B. J. Congestion and rents. (*In Ibid.*, p. 59–67.)

Unwin, R. Nothing gained by overcrowding! How the garden city type of development may benefit both owner and occupier. London, Garden Cities and Town Planning Association, 1918. 23 p. illus., plans.

Foreword to third edition, 1918, by the Marquis of Salisbury — First published, 1912.

See also **1424** ff.

1685 Atterbury, G. Model towns in America. (Scribner's Magazine, July 1912; vol. 53, p. 19–35. illus., plans.)

Also reprinted as National Housing Association Publication no. 17.

On residential "garden" suburbs.

Cheney, C. H. A great city planning project on the Pacific coast — Palos Verdes. (American City, July 1922; vol. 27, p. 47.)

An area of 25 sq. miles to be developed as a residential suburb of Los Angeles.

City planning study. *See* **880.**

Olmsted, F. L. Planning residential subdivisions. (*In* Proceedings of 11th National Conference on City Planning, 1919, p. 1–21.)

Abstract in Municipal and County Engineering, Oct. 1919; vol. 57, p. 161–164.

Prize-winning plans. *See* **880.**

Rading, A. The garden village, a new method of developing suburban land, translated by F. B. Williams. (National Municipal Review, Apr. 1923; vol. 12, p. 168–171. plan.)

Triggs, H. I. Town expansion. (*In* his Town planning, 1909, p. 170–210. plans.)

On the development of residential suburbs.

Unwin, R. Of site planning and residential roads. (*In* his Town planning, 1909, etc., p. 289–318. illus., plans.)

Williams, C. H. How to get garden suburbs in America. (*In* Proceedings of 5th National Conference on Housing, Housing problems in America, 1916, p. 102–110; with discussion by A. C. Comey, A. W. Crawford, and others, p. 295–310.)

See also **2355,** for relation of transit to suburban development; **3380,** for methods of land subdivision.

1695 A series of articles on the older "high-class" residential suburbs appeared in **House and Garden** as follows:

Llewellyn Park, West Orange, N. J., The first American suburban community, by S. Swift; June 1903; vol. 3, p. 327–335.

Community life at **Rochelle Park,** by S. Swift; May 1904; vol. 5, p. 235–243.

Lake Forest, the beautiful suburb of Chicago, by A. H. Granger; June 1904; vol. 5, p. 265–275.

Community life in **Tuxedo,** by S. Swift; Aug. 1905; vol. 8, p. 61–71.

Examples of printed booklets descriptive of "high-class" residential developments are: Roland Park and Guilford, Baltimore; Country Club District, Kansas City, Mo.; Forest Hills Gardens, L. I.; Brendonwood, Indianapolis; Ottawa Hills, Toledo; Euclid Golf and Shaker Heights, Cleveland; Colony Hills, Springfield, Mass.; etc.

Low-cost Residential Districts

1697 American City Planning Institute. Town planning lessons from government housing operations. Philadelphia, 1919. 24 p.

Contents: Housing operations of Emergency Fleet Corporation, by B. A. Haldeman; United States Housing Corporation, by F. L. Olmsted; Summary by J. Nolen. Discussion.

Architectural Review (Boston), vol. 6, 1918, contained a series of illustrated articles on land developments for industrial housing.

Comey, A. C. Billerica garden suburb. (Landscape Architecture, July 1914; vol. 4, p. 145–149. plan.)

An attempt to develop a low-cost suburb on the co-partnership principle.

Crawford, A. W. Standards set by the new federal war suburbs and war cities. 24 p. illus., plans. (American Civic Association, Series II, no. 12, Oct. 1918.)

Low-cost Residential Districts (cont.)

Davison, R. L. List of low-cost housing developments in the United States. (*In* Nolen, J., More houses for Bridgeport; report to Chamber of Commerce, 1916, Appendix B, p. 47–57.)

Goodrich, E. P., *see* **1613.**

Knowles, M. Industrial housing, with discussion of accompanying activities; such as town planning — street systems — development of utility services — and related engineering and construction features. New York, McGraw-Hill Book Co., 1920. 408 p. illus., plans.

Magnusson, L. A modern industrial suburb. (U. S. Bureau of Labor Statistics, Monthly Review, Apr. 1918; vol. 6, p. 729–753. illus., plans.) *Also reprinted.*

Morgan Park, Duluth, Minn. Pages 735–739 deal with the treatment of labor camps.

Nolen, J. The industrial village. New York, National Housing Association, Sept. 1918. 22 p. plans. (Publication no. 50.)

Similar articles on industrial village planning appeared earlier in 1918 in his pamphlet entitled: Industrial housing — better homes for less money; and in the *Architectural Forum* for Apr. 1918. Six typical developments designed by Mr. Nolen are used as illustrations in both pamphlets.

—— Land subdivision and its effect upon housing. (*In* 4th National Conference on Housing, Housing problems in America, 1915, p. 33–52; with discussion, p. 53–64.)

A discussion of low-cost districts. The data used were assembled by a Committee of the National Conference on City Planning (*see* **3380**).

—— Mariemont. *See* **1426.**

Olmsted, F. L. Lessons from the housing developments of the United States Housing Corporation. (Monthly Labor Review, U. S. Bureau of Labor Statistics, May 1919; vol. 8, p. 27–38.) *Also reprinted.*

By the Chief Town Planner of the Corporation.

Ontario. Bureau of Municipal Affairs. Report *re* housing for 1919, including reports of officials, statements as to operations of housing commissions, plans, etc. Toronto, Govt. Printer, 1920. 140 p. illus., plans.

Purdy, L. Better homes with more profit. (*In* Proceedings of 14th National Conference on City Planning, 1922, p. 186–190.)

A plea for more open development.

Recent government housing developments. Yorkship Village, Camden, N. J., by E. D. Litchfield; Atlantic Heights at Portsmouth, N. H., by W. H. Kilham; Union Park Gardens, Wilmington, Del., by E. G. Perrot. (*In* Proceedings of 7th National Conference on Housing, Housing problems in America, 1918, p. 82–117.)

Seine (Dépt.) Office Public d'habitations à bon marché. La constitution de l'Office des habitations à bon marché du département de la Seine. Son action et ses travaux du 10 juillet 1916 au 31 décembre 1918. Paris, [1918]. 195 p. plans.

Followed by a series of reports with plans of the garden suburb developments about Paris.

Southern Pine Association (New Orleans). Homes for workmen. A presentation of leading examples of industrial community development. New Orleans, The Association, [1919]. 249 p. illus., plans.

Successful examples of low cost housing in England and the United States, including the new suburb of Flint, Michigan, Gidea Park, England, and a "Check List" of American housing developments. (Architectural Review, Apr. 1917; vol. 5, no. 4.)

Thompson, F. L. Site planning in practice; an investigation of the principles of housing estate development . . . with a foreword by Raymond Unwin. London, H. Frowde and Hodder & Stoughton, [1923]. 258 p. illus., plans. (Oxford Technical Publications.)

U. S. Bureau of Industrial Housing and Transportation. Report of the United States Housing Corporation, Vol. 2. Houses, site-planning, utilities. Washington, Govt. Printing Office, 1919. 524 + 19 p. illus., plans.

Edited by H. V. Hubbard. A compendium of information on low-cost residential districts. The photographs of completed developments are mainly in Vol. 1 (*see* **1431**).

U. S. Shipping Board. Housing the shipbuilders. Constructed during the war, under the direction of the United States Shipping Board, Emergency Fleet Corporation, Passen-

ger Transportation and Housing Division. Philadelphia, Pa., 1920. 57 p. illus., plans.

Some photographs of completed developments are shown.

Veiller, L. Industrial housing developments in America [a series of illustrated articles]. (Architectural Record, Mar.–Aug. 1918; vol. 43.)

Walpole, Mass., Town Planning Committee. Housing. (*In* its Town planning for small communities, 1917, p. 149–231. illus., plans.)

Deals with land developments for low-cost housing.

Whitaker, C. H., *ed., see* **1430.**

Wright, H. Platting city areas for small houses. 1920. 16 p. illus. (Supplement to Journal of American Institute of Architects, Aug. 1920.)

See also **1430** ff., **3380, 3633, 5350.**

1703 Ackerman, F. L. The building of Manhattan. (Journal of American Institute of Architects, Apr. 1922; vol. 10, p. 114–120. illus., plans.)

Three periods of tenement house building compared as to density of development.

Veiller, L. A model housing law. Rev. ed. New York, Russell Sage Foundation, 1920. 430 p. illus., plans.

Relates mainly to tenement houses.

1704 Bacon, A. F. Heading off the slums. Why housing laws are necessary. (*In* Proceedings of 7th National Conference on Housing, Housing problems in America, 1918, p. 251–265.)

Cram, R. A. Scrapping the slum. (*In Ibid.*, p. 242–250; with discussion by T. Adams, p. 312–319.)

Great Britain. Ministry of Health. Unhealthy Areas Committee. Second and final report of the committee appointed by the Minister of Health to consider and advise on the principles to be followed in dealing with unhealthy areas. London, H. M. Stationery Office, 1921. 24 p.

Unhealthy areas and town planning. (Town Planning Review, Mar. 1921; vol. 9, p. 47–49.)

On the need for a general survey and plan before reconstruction of slum areas.

Veiller, L. Slumless America. (*In* Proceedings of 12th National Conference on City Planning, 1920, p. 154–161.)

Also in National Municipal Review, Aug. 1920; vol. 9, p. 493–498.

Agricultural Areas

1715 Adams, T. Reserving productive areas within and around cities, a proposal to substitute agricultural wedges for zones. (Journal of American Institute of Architects, Oct. 1921; vol. 9, p. 316–319. diagr.)

Bright, J. I. The plan for Coconut Grove, Florida. Foreword by Thomas Adams. (Journal of American Institute of Architects, Apr. 1921; vol. 9, p. 110–127. illus., plans.)

Proposes a "productive park strip."

Child, S. The agricultural belts of garden cities. (Town Planning Institute, London, Papers and discussions, 1920–21, vol. 7, p. 104–105.)

Eve, Sir T. The agricultural belts of garden cities. (*In Ibid.*, p. 55–58; with discussion, p. 59–67.)

Purdom, C. B. What is an agricultural belt? (Garden Cities and Town Planning, Apr. 1921; vol. 11, p. 85–87.)

A comment on Sir Tristram Eve's paper. (*Ibid.*, p. 82–84.)

See also **5350**; and **6100,** especially **Comey** and **Whitten.**

Boundaries and Approaches

1745 Robinson, C. M. The water approach; The land approach. (*In* his Modern civic art, 1918, etc., p. 39–58; 59–80. illus.)

Unwin, R. Of boundaries and approaches. (*In* his Town planning, 1909, etc., p. 154–174. illus.)

See also **1715, 2450** ff., **2550** ff., **4040,** etc.

PLATTING: SUBDIVISION OF CITY AREA INTO STREETS AND BLOCKS

For platting legislation, *see* **770.**

1800 Lewis, N. P. Planning of streets and street systems. (*In* Blanchard, A. H., *ed.*, American highway engineers' handbook, 1919, p. 363–418. illus., plans; with bibliography.)

Principles of platting condensed for engineers.

—— The street system. (*In* his Planning of the modern city, 1916 and 1923, p. 86–129. illus., plans.)

Robinson, C. M. City planning, with special reference to the planning of streets and lots. New York, G. P. Putnam's Sons, 1916. 344 p. illus., plans.

Discusses types of street platting in relation to uses of districts.

Haldeman, B. A. The street layout. (*In* American Academy of Political and Social Science, Housing and town planning, 1914, p. 182–191.)

Hurd, R. M. Ground plan of cities. (*In* his Principles of city land values, 1903, p. 33–55. illus., plans.)

Types of plats in relation to development.

Lewis, N. P. The planning of undeveloped city areas. (*In* Proceedings of 2d National Conference on City Planning, 1910, p. 115–124.)

—— Report of sub-committee on local subdivisions. (*In* Proceedings of American Society for Municipal Improvements, 1921, p. 176–195; with discussion, p. 193–195.)

Practical street construction, *see* **2050.** Contains several chapters related to Platting.

Shirley, J. W. The problem of extending the city plan. (*In* Proceedings of 2d National Conference on City Planning, 1910, p. 164–171.)

Condensed in American City, Oct. 1910; vol. 3, p. 193–194.

Shurtleff, A. A. Bees and men as community planners. Based on a paper read by the author at the Winnipeg town planning conference. (Landscape Architecture, October 1921; vol. 12, p. 40–45.)

An analogy for gridiron planning.

—— The public street systems of the cities and towns about Boston in relation to private street schemes. (*In* Proceedings of 4th National Conference on City Planning, 1912, p. 116–137. With papers on Newton and Watertown and discussion.)

Based on Mr. Shurtleff's studies published in Report of the Massachusetts Metropolitan Improvements Commission, 1909, which contained an interesting series of comparative plans. *See also* his article on the same subject in *Landscape Architecture*, Jan. 1911.

See also **1200** ff., Composition of city plans; **2050,** Streets; **3000,** Blocks and lots; **5200** ff., Types of city plans.

ELEMENTS OF CITY PLANS

CHANNELS OF TRANSPORTATION

2000 American Society for Municipal Improvements. Committee on Traffic and Transportation. Annual reports, published in Proceedings. Note especially 1920 and 1921.

Arnold, B. J. City transportation: subways and railroad terminals. (Journal of Western Society of Engineers, Apr. 1914; vol. 19, p. 325–368.)

Great Britain. Royal Commission on London Traffic. Report of the Royal Commission appointed to inquire into and report upon the means of locomotion and transport in London. London, Wyman & Sons, 1905–06. 8 vols. illus., maps, plans.

An historic document on urban transportation.

Haldeman, B. A. Main thoroughfares and street railways. (*In* Nolen, J. *ed.*, City planning, 1916, p. 279–313. illus., plans.)

Lewis, N. P. Transportation and the city plan. (*In* Proceedings of American Society for Municipal Improvements, 1920, p. 74–81.)

——. The transportation system. (*In* his The planning of the modern city, 1916 and 1923, p. 54–85. illus., plans, cross-sections.)

Lyford, W. H. Coöperation *vs.* competition between motor truck and railroad transportation. (Good Roads, Nov. 22, 29, 1922; vol. 63, p. 181–183, 185–187 of Nov. 29.)

Waterways, railroads, and rapid transit.

Maltbie, M. R. Transportation and city planning. (*In* Proceedings of 5th National Conference on City Planning, 1913, p. 105–119. Introduction by B. J. Arnold, p. 103–104, and discussion, p. 119–137.)

Condensed in American City, June 1913; vol. 8, p. 586–590.

Pride, G. H. The interrelationship of highways, railways and waterways. (Good Roads, Mar. 22, 1919; vol. 17, p. 127–128.)

Paper at Annual Convention, American Road Builders' Association, 1919.

STREETS, ROADS, FOOTWAYS

2050 Blanchard, A. H., *ed.* American highway engineers' handbook. 1st ed. New York, John Wiley & Sons, 1919. 1658 p. illus., plans.

Section on Planning of streets, by N. P. Lewis, *see* **1800.**

Bosanquet, R. C. Greek and Roman towns. I. Streets. (Town Planning Review, Jan. 1915; vol. 5, p. 286–293. illus., plans.)

Lewis, N. P., *see* **1800, 2058, 2076,** etc.

Munro, W. B. Streets. (*In* his Principles and methods of municipal administration, 1916, p. 74–121.)

Olmsted, Vaux and Co. Observations on the progress of improvements in street plans. With special reference to the park-way proposed to be laid out in Brooklyn. Brooklyn, I. Van Anden, 1868. 30 p.

From the Report of the Brooklyn Park Commissioners, 1868.

Pollock, H. M., and W. S. Morgan. City streets and some splendid types. (*In* their Modern cities, 1913, p. 66–84.)

Practical street construction: planning streets and designing and constructing the details of street surface, subsurface and supersurface structures. Reprinted from a series of articles which appeared in Municipal Journal during the year 1916. New York, Municipal Journal and Engineer, 1916. 248 p. illus., plans, cross-sections.

The *Municipal Journal* is now called *Public Works.*

Robinson, C. M. City planning, with special reference to the planning of streets and lots. *See* **1800.**

Superseded his *Width and Arrangement of Streets*, 1911.

—— The evolution of the street. (House and Garden, Nov., Dec. 1903, Jan., Feb. 1904; vol. 4, p. 216–221, 263–268, vol. 5, p. 14–21, 57–62. illus.)

Historical article with examples from Europe and America.

Streets, Roads, Footways (cont.)

Robinson, C. M. The sociology of a street layout. (*In* American Academy of Political and Social Science, Housing and town planning, 1914, p. 192–199.)

Stübben, J. Verschiedene Strassenarten; Längen- und Querschnitte; Strassen von besonderer Art; Strassenkreuzungen, Strassenerweiterungen und Strassenvermittelungen. (*In* his Der Städtebau, 1907, p. 62–147. illus., plans.)

Triggs, H. I. The planning of streets. (*In* his Town planning, 1909, p. 213–270. illus., plans.)

U. S. Bureau of Foreign Commerce. Streets and highways in foreign countries. Reports from the consuls of the United States on streets and highways in their several districts. Issued from the Bureau of Statistics, Department of State, Washington, 1891. 592 p. illus. (Special consular reports, vol. 3.)

Unwin, R. Of the arrangement of main roads, their treatment and planting; Of site planning and residential roads. (*In* his Town planning in practice, 1909, etc., p. 235–318. illus., plans.)

For photographs of streets of all types, *see especially* files of the *American City* and *Good Roads* (New York).

2056 Burnap, G. Street nomenclature in city planning. (Architectural Record, June 1922; vol. 51, p. 535–537.)

The Dundalk Co. (Edward H. Bouton, President.) A competition in street-naming. (Landscape Architecture, July 1918; vol. 8, p. 190–192. plan.)

Results *described in* Landscape Architecture, Apr. 1919; vol. 9, p. 125–128.

Husted, A. M. System in naming and marking streets. (American City, Feb. 1922; vol. 26, p. 176. illus.)

2056.5 Folwell, A. P. House numbering. (*In* his Municipal engineering practice, 1916, p. 279–284.)

Shay, G. D. Street renumbering in Utica, N. Y. (American City, May 1921; vol. 24, p. 459–460. maps.)

Motor Transportation as affecting Street Plans

2058 Adshead, S. D. The lay-out of roads in relation to requirements. (Town Planning Review, Jan. 1916; vol. 6, p. 163–170.)

Discusses some controversial points in relation to motor traffic.

Goodrich, E. P. The design of the street system in relation to vehicular traffic. (*In* Proceedings of 14th National Conference on City Planning, 1922, p. 84–103; with discussion, p. 123–132.)

—— The urban auto problem. (*In* Proceedings of 12th National Conference on City Planning, 1920, p. 76–88; with discussion, p. 88–106.)

Also in National Municipal Review, July 1920; vol. 9, p. 435–443.

Harger, W. G. Effects of motor operation costs on highway location and grade design summarized. (Engineering News-Record, Feb. 3, 1921; vol. 86, p. 201–203. diagr.)

Lay, C. D. Notes on the influence of automobiles on town, country, and estate planning. (Landscape Architecture, Jan. 1920; vol. 10, p. 89–95. illus., plans.)

Lewis, N. P. The automobile and the city plan. (*In* Proceedings of 8th National Conference on City Planning, 1916, p. 35–56; with discussion, p. 68–90.)

Also in City Plan, June 1916; vol. 2, no. 2, p. 2–11. *Summarized in* American City, July 1916; vol. 15, p. 79–81.

Schaeffer, A. The conservation of existing facilities for the relief of traffic congestion. (Municipal Engineers' Journal, New York, third quarterly issue, 1922; vol. 8, paper 132, p. 1–26. illus., plans; with discussion, p. 26–35.)

A study of New York problems, relating traffic congestion to zoning, rapid transit, and housing.

Legislation Including Setbacks and Street Widening

2070 Boston Chamber of Commerce. Report on city planning in relation to the street system in the Boston Metropolitan District. Statement from the Committee on City Planning transmitting a report prepared by F. Shurtleff. Boston, Mar. 1914. 19 p.

A legal report.

Massachusetts Society for Promoting Agriculture. The law of the roadside; How to protect our landscape; Electric lines in public ways; Shade trees in public ways; Insect pests; Trespass to real estate. 2d ed. [Boston, G. H. Ellis Co.], 1911. 95 p.

Although out of date, this compilation is still of interest, and suggestive of what might be done in any state.

An **ordinance** for economical and systematic street development, Philadelphia. (American City, Sept. 1915; vol. 13, p. 224–225.)

Incorporates the "Elastic" street principle.

Olmsted Brothers. Parkway laws. (*In* their Report on a proposed parkway system for Essex County, New Jersey, 1915, p. 15–37.)

Prichard, C. B. Legal aspects of traffic control. (*In* Proceedings of 13th National Conference on City Planning, 1921, p. 137–154.)

Simpson, J. Liability of municipalities for fixed obstructions in streets. (Public Works, Feb. 28, 1920; vol. 48, p. 143–144.)

Toronto Civic Guild. Draft bill for deferred street widenings, with observations. [Toronto, Ont., 1922.] 15 p.

Note on power to establish building lines granted by passage of act *in* Journal of Town Planning Institute of Canada, June 1922; vol. 1, no. 10, p. 3–4.

Williams, F. B. Streets — setbacks — traffic regulations. (*In* his Law of city planning and zoning, 1922, p. 173–190.)

See also **722** ff., **770.**

2073 Brookline, Mass., Planning Board. Building lines. (*In* its Annual report, 1915, p. 5–9. illus.)

Also in Landscape Architecture, Oct. 1916; vol. 7, p. 22–26. illus.

For a record of building lines established to Jan. 1, 1921, see its Annual report for 1920.

Building lines. Acts of New Jersey, Chapter 215, 1917. (City Plan, Aug. 1917; vol. 3, no. 2, p. 12.)

Establishment of building lines for aesthetic purposes . . . citing case of Windsor, Conn., "111 Atlantic 354." (Harvard Law Review, Feb. 1921; vol. 34, p. 433–434.)

Cleveland City Plan Commission. The building line ordinance. [1920.] 4 p. illus.

Flint, Mich. An ordinance to establish building lines. Approved Jan. 4, 1922. [7 p.] (Ordinance no. 301.)

Locke, W. J. Set back lines, power to establish them from a legal standpoint — opinions of legal authorities and courts. (Municipal Journal, New York, Dec. 21, 1918; vol. 45, p. 487–488.)

From *Pacific Municipalities*, the official organ of the League of California Municipalities.

New York (City) Board of Estimate and Apportionment. Committee on the City Plan. Establishment of setbacks or court yards in the City of New York. 1917. 15 p. illus.

Olmsted, F. L. Building lines in the first ward of New Haven. (*In* Report of New Haven Civic Improvement Commission, 1910, p. 133–138.)

Also published separately, 1913.

Set-back lines as an aid to better and cheaper layouts. (American City, Feb. 1917; vol. 16, p. 144–148. cross-sections.)

Shurtleff, F. Building lines. (*In* Proceedings of the Fourth Annual City and Town Planning Conference of Massachusetts Planning Boards, 1916, p. 21–24; with discussion, p. 24–29.)

For front yards or setbacks as area provisions in zoning regulations, *see* **1600,** Zoning.

2074 Lewis, N. P. Street widening to meet traffic demands. (*In* Proceedings of 9th National Conference on City Planning, 1917, p. 43–59; with discussion, p. 67–78.)

Also condensed in City Plan, Aug. 1917; vol. 3, no. 2, p. 9–11; *and* Good Roads, May 26, 1917; vol. 13, p. 309–313.

Methods of widening, with examples.

Rey, A. A. Street widening in close built areas by successive stages. (Town Planning Review, Apr. 1914; vol. 5, p. 39–46. illus.)

Robinson, C. M. Various methods of street widening. (*In* his City planning, 1916, p. 265–276. illus.)

See also **2105,** Street width.

Street Traffic

2076 Eno, W. P. The science of highway traffic regulation, 1899–1920. New York, Brentano's, Apr. 1920. 100 p. illus., plans, diagr.

The authoritative work on the subject. Contains bibliography of numerous useful special articles by the writer and others; and "General Highway Traffic Regulations," a standard traffic act, also issued separately, revised to Mar. 1923.

American Society for Municipal Improvements. Traffic and transportation regulations: tentative recommendation presented by a Committee, Oct. 1922. (Good Roads, Oct. 25, 1922; vol. 63, p. 147–148.)

Covers policies to be adopted by the Society in 1923 regarding weights of motor trucks, sign-posting, safety zones, vehicular and pedestrian traffic regulations, etc.

Fixmer, H. J. Road design and regulation of traffic. (Engineering and Contracting. Apr. 2, 1919; vol. 51, p. 328–331. illus.)

Tables showing relation between roadway-width and width and speed of self-propelled vehicles, etc.

Gillespie, J. The automobile and street traffic. (*In* Proceedings of 8th National Conference on City Planning, 1916, p. 57–67.)

Lewis, N. P. Street traffic. (*In* his The planning of the modern city, 1916 and 1923, p. 200–219. illus., plans.)

Mehren, E. J. Practical regulation of highway transport. (Engineering News-Record, May 25, 1922; vol. 88, p. 871–873.)

Address before Highway Transport Session of the Chamber of Commerce of the U. S. A., Washington, 1922.

Swan, H. S. Speeding up traffic at street intersections. Slow ups and hold ups at intersecting streets one of chief causes of automobile congestion — relief measures outlined — traffic survey a prerequisite. (Engineering News-Record, Mar. 1, 1923; vol. 90, p. 400–404. diagr.) *Also reprinted.*

Talbert, C. M. An "accident map" and its uses. (American City, May 1918; vol. 18, p. 430–432. maps.)

Comparative "accident" and traffic maps as an aid to study of needed street revisions.

Unwin, R. America revisited — A city planner's impressions. (American City, Apr. 1923; vol. 28, p. 334–336. diagr.)

Comparison of American and European traffic conditions.

Whitten, R. H. Unchoking our congested streets. (American City, Oct. 1920; vol. 23, p. 351–354. illus.)

The pamphlets issued by the National Automobile Chamber of Commerce (New York City) are useful for reference in this connection.

For discussion of relation of street traffic accidents to street lighting, *see* **2310.**

See also **2000, Great Britain,** for mass of information on street traffic assembled by the Royal Commission on London Traffic.

2076.1 Goodsell, D. B. Traffic census; its application to the design of roadways, selection of pavements, and traffic regulations. (Good Roads, Feb. 17, 1917; vol. 51, p. 118–120; with bibliography.)

See also **2120,** article by Crosby.

Herrold, G. H. Diagram for analyzing city traffic used by City Planning Board, St. Paul, Minn. (Engineering News-Record, July 7, 1921; vol. 87, p. 33. diagr.)

Highway traffic committee (of New Jersey State Association of County Engineers) urges advance planning. Answers to questionnaire indicate need for standardization of traffic census methods and results. (Engineering News-Record, Feb. 24, 1921; vol. 86, p. 338–340. diagr.)

Johnson, A. N. The traffic census and its use in deciding road width. (Public Roads, July 1921; vol. 4, no. 3, p. 6–9, 23. diagr.)

——. Traffic counts in various states. Brief description of the progress made in traffic censuses — classifications adopted. (Good Roads, Jan. 12, 19, 26, Feb. 2, 1921; vol. 21, p. 14, 16–17, 22–23, 38, 48, 63, 79.)

From a paper before annual convention of American Association of State Highway Officials, Washington, D. C., 1920.

2076.2 Sohier, W. D. Motor vehicles and the highways. (Public Roads, Oct–Nov. 1919; vol. 2, no. 18–19, p. 39–41.)

Regulation of size and weight necessitated by excessive road costs.

Tomlin, R. K., Jr. The trend of motor-vehicle legislation, digest of laws of the 48 states relating to license fees and regulation of weights, dimensions and speeds of passen-

ger automobiles and motor trucks. (Engineering News-Record. Sept. 1, 1921; vol. 87, p. 354–365. tables.)

Would regulate size, weight and speed of motor trucks. (Good Roads, June 7, 1922; vol. 62, p. 319–320.)

Summary of action proposed at National Highway Traffic Association convention, New York, 1922.

2076.3 Eno. Standard traffic act. *See* **2076.**

Shirley, H. G. Relation of the proposed uniform vehicle law to municipal traffic regulations. (*In* Proceedings of the American Society for Municipal Improvements, 1920, p. 107–111.)

Abstract in Good Roads, Nov. 3, 1920; vol. 20, p. 215, 218. Editorial note, p. 217.

The proposed law was issued in pamphlet form, Jan. 20, 1920, by the Joint Committee on Uniform Vehicle Laws, Washington, D. C.

Swan, H. S. Automobile control, city planning and traffic regulation. Limits of car operation in relation to speed and road capacity demand better street plans and traffic rules. (Engineering News-Record, Feb. 22, 1923; vol. 90, p. 351–353. diagr.)

See also **2128,** Safety isles and zones; **2135,** Street intersections; **2309,** Street traffic signs and signals.

McConaghie, J. R. The use of paint on roads to direct traffic. I. How painted lanes and safety zones protect the pedestrian. II. How it aids in simplifying the parking problem; types of paints employed and method of application. (Good Roads, Aug. 9–16, 1922; vol. 63, p. 47–49, 54, 56–58, 62. illus.)

Nye, G. H. Is the road surface the proper place for direction signs? (American City, Nov. 1922; vol. 27, no. 5, p. 434–436. diagr.)

2076.4 Eno, W. P. Adequate ranking and parking facilities. Paper before National Highway Traffic Association, 1922. *Reprinted from* Motor Travel, Oct. 1922, revised to Mar. 15, 1923. 2 p. diagr.

Swan, H. S. Our city thoroughfares — shall they be highways or garages? A consideration of the parking problem. (American City, Dec. 1922; vol. 27, p. 496–500. illus., plan.)

Also in National Real Estate Journal, July 3, 1922; *and* Building and Building Management, May 29, 1922; *and in* Motor World, Sept. 27, 1922.

Young, H. E. Day and night storage and parking of automobiles. Paper read at 15th National Conference on City Planning, May 1, 1923. *To be published in the Conference Proceedings.*

See also **2128.**

Street Design

2080 American Society of Municipal Improvements. Report of the committee on sidewalks and street design. (*In* Transactions of the Society, 1917, vol. 24, p. 38–43.)

Proposals for standard practice.

S. Sammelman, chairman of the committee.

Blanchard, A. H., *ed., see* **2050.**

Hirst, A. R. Safety and beauty as factors in road design and construction. (Good Roads. Mar. 8, 1922; vol. 62, p. 137–142, 144.)

Paper at annual convention of American Association of State Highway Officials.

Ideal section of Lincoln Highway to be completed June 15. (Good Roads, May 9, 1923; vol. 64, p. 182.)

Lincoln Highway Association. An "ideal section" on the Lincoln Highway; a tabulation, with summary and comments, of the replies received in response to the Lincoln Highway Association's questionnaire regarding plans and specifications for an Ideal Section. Detroit, The Association, [1920]. 16 p.

Thompson, G. W. Design features of Lincoln Highway, "ideal section." (Engineering News-Record, June 15, 1922; vol. 88, p. 982–986. illus., cross-section.)

U. S. Bureau of Industrial Housing and Transportation. Tentative instructions to designers for street improvements of industrial housing developments. (*In* its Report of the United States Housing Corporation, 1919, vol. 2, p. 464–470; with engineering drawings nos. 2–5.)

Unwin, R. Roads and streets. (Town Planning Review, Apr. 1914; vol. 5, p. 31–38. illus., plans.)

Discusses especially the esthetic aspects of street design.

Street Design (cont.)

2085 Breed, H. E. Status of highway curves and recommended practice to increase safety of traffic. (Good Roads, May 31, 1922; vol. 62, p. 298–299.)

Committee report at annual meeting of National Highway Traffic Association.

Caparn, H. A. Value of the curve in street architecture. (Architectural Record, Mar. 1905; vol. 17, p. 231–236. illus.)

2090 For references on orientation of streets, *see* Building orientation, **3470.**

2100 Street grades. (*In* Practical street construction, *see* **2050,** p. 190–217.)

2103 Augur, T. B., *see* **3065.**

Bigger, F. Hillside streets require special treatment in city planning. (American City, Oct. 1922; vol. 27, p. 329–330. diagr.)

Pittsburgh.

Improving hillside streets. (Municipal Journal, New York, Feb. 22, 1919; vol. 46, p. 150–151. illus.)

Two-level streets, switchbacks, and sunken roadways used on San Francisco streets.

O'Shaughnessy, M. M. Cutting a hill out of the heart of a city. (American City, May 1920; vol. 22, p. 478–481. illus.)

Rincon Hill, San Francisco.

Rappaport, P. A. Steigende Strassen. Eine Studie zum deutschen Städtebau. Berlin, E. Wasmuth, 1911. 55 p. illus., plans.

For treatment of steep gradients, *see* City planning reports for Pittsburgh (1910 and 1921), Seattle (1911), Providence (1912), San Francisco (1905 and 1913), Portland, Ore. (1921), St. Paul (1922).

Street Widths

2105 Application of the elastic principle to street widening in Philadelphia. (American City, July 1915; vol. 12, p. 41. cross-sections.)

On standard cross-sections.

Brodie, J. A. Wide roads for cities. (*In* Town Planning Institute, London, Papers and discussions, 1914–15; vol. 1, p. xviii–xxii.)

Also in Municipal Journal, London, Oct. 30, 1914; vol. 23, p. 1209–1210; *and in* Town Planning Review, Jan. 1915; vol. 5, p. 294–299.

Citizens Committee on City Plan of Pittsburgh. Developing the plan — tabulation of the major streets. (*In* its Major street plan for Pittsburgh, 1921, p. 39–60. illus.)

"Lines-of-traffic" principle for Pittsburgh street widths (later officially adopted).

Elastic and garden streets in Philadelphia. (Municipal Journal, New York, Nov. 23, 1918; vol. 45, p. 412.)

"Elastic" streets. Discussion led by B. A. Haldeman. (*In* Proceedings of 9th National Conference on City Planning, 1917, p. 263–268.)

Fixmer, H. J. Roadway and sidewalk widths — bearing on city planning. (Good Roads, July 13, 1921; vol. 61, p. 15–18, 24. illus.)

Report of National Committee on widths of roadways and sidewalks in municipalities, presented at annual convention of National Highway Traffic Association, Detroit, 1921.

See also **2076.**

Haldeman, B. A. Rules of practice for the establishment of street widths and their subdivisions. (Canadian Engineer, Oct. 23, 1919; vol. 37, p. 409–410.)

Unrevised draft of paper before American City Planning Institute.

Hoffman, R. Width of roadways for different classes of streets. (*In* Proceedings of American Society for Municipal Improvements, 1920, p. 112–117.)

Abstract in Good Roads, Dec. 1, 1920; vol. 20, p. 258–260; *and* Public Works, Dec. 11, 1920; vol. 49, p. 549–550.

A review of earlier ideas in the light of increasing sizes and numbers of motor vehicles.

Johnson, A. N., *see* **2076.1.**

Nolen, J. Standardized street widths. (*In* Proceedings of 3d National Conference on City Planning, 1911, p. 198–206.)

Robinson, C. M., *see* **2050.**

Smith, H. C. Traffic capacity and width of highways outside municipalities. (Good Roads, May 31, 1922; vol. 62, p. 300, 302.)

Committee report at annual meeting of National Highway Traffic Association.

Thompson, F. L. Width and allocation of space in roads. (*In* Town Planning Institute,

London, Papers and discussions, 1915–16; vol. 2, p. 115–126; with discussion, p. 127–132. cross-sections.)

Also in American City, June 1916; vol. 14, p. 557–564. cross-sections.

Tillson, G. W. Effect of car tracks upon traffic capacity of roadways. (American City, Mar. 1920; vol. 22, p. 279, 281, 283, 285.)

See also **2384.**

2116 Bigger, F. Utility and beauty *versus* extravagance in street planning. (American City, Apr. 1923; vol. 28, p. 345–346. illus.)

The advantages of parking shown by a Pittsburgh example.

Discussion on grass margins. (Town Planning Institute, London, Papers and discussions, 1920–21; vol. 7, p. 108–114.)

Gabelman, F. Roadway and lawn space widths and maintenance of boulevards and streets in Kansas City, Mo. (American City, Oct. 1912; vol. 7, p. 350–352. illus., cross-sections.)

City Parks Association of Philadelphia. [List of] Highways in Philadelphia which are planned with double or triple roadways separated by planting strips [and list of neighborhood squares]. (*In* its Annual report, 1917, vol. 29, p. 36–37.)

Robinson, C. M. [Discussion of various types of street parking] and The development of residential streets. (*In* his City planning, 1916, p. 199–203, 209–226. illus.)

Photographs of different types of street parking may be found especially in the files of *American City* and *Good Roads* and in the volume of proceedings of the Housing and Town Planning Conference, 1911, of the (British) Institution of Municipal and County Engineers, plates 15–25 at back of volume.

For suggestions as to parking of irrigation ditches in streets, *see* Olmsted report for Boulder, Colo., **4383.**

See also **1685** ff., Residential districts; **2205,** Boulevards and parkways; **2235,** Residential streets; **4875** ff., Street planting.

Multi-level Streets

2119 Chicago Plan Commission. Reclaim South Water Street for all the people . . . Chicago, Nov. 1917. 55 p. illus., plans.

A proposal for a two-level waterfront highway. See the commission's further pamphlet, "South Water Street facts," 1922.

Combs, P. S. Double deck street and sidewalks for congested Chicago. (Engineering News-Record, Dec. 30, 1920; vol. 85, p. 1293.)

Traffic classified for purposes of studying the problem.

Expressways proposed to relieve N. Y. traffic congestion — C. W. Leavitt suggests elevated vehicular routes — Amos Schaeffer analyzes cost of plan. (Engineering News-Record, Mar. 31, 1921; vol. 86, p. 547.)

The **Park Avenue viaduct,** New York City. (Architecture, Jan. 1919; vol. 39, p. 41–44. illus., plans, cross-sections.)

Cf. article by H. W. Levy from engineering point of view in *Engineering News-Record,* July 11, 1918.

Streich, W. F. A plan for multiplying the utility of business thoroughfares. (American City, Mar. 1913; vol. 8, p. 275–276. illus.)

A proposal for a multi-level street for Detroit.

Suplee, H. H. A five-storied street; an effective and practical plan for handling the congested traffic in great cities. (Cassier's Magazine, June 1913; vol. 43, p. 57–60. illus.)

Wacker, C. H. Creating a world famous street. Argument of Chairman of Chicago Plan Commission in behalf of widening and extending Michigan Avenue, before Board of Local Improvements of City of Chicago, May 1913. 57 p. plans, cross-sections, etc.

Detailed report on a two-level street.

Brief article on project *in* American City, Dec. 1914; vol. 11, p. 453–455. illus.

Webster, G. S. Subterranean street planning. (*In* American Academy of Political and Social Science, Housing and town planning, 1914, p. 206–207.)

Proposals for two-level streets by construction of passenger and freight subterranean ways.

Pavements

2120 Agg, T. R. The construction of roads and pavements. 2d rev. ed. New York, McGraw-Hill Book Co., 1920. 463 p. illus., diagr.

American Society for Municipal Improvements. Proceedings. — Several sections of the annual proceedings of this society are devoted to reports, special studies, and standard specifications for pavements.

Pavements (cont.)

Blanchard, A. H. Street surfaces and the city plan. (City Plan, Jan. 1916: vol. 1, no. 1, p. 3–8.)

—— *ed.* American highway engineers' handbook, 1919. *See* **2050.**

Contains extensive sections on pavements.

——, and **H. B. Drowne.** Textbook on highway engineering. New York, John Wiley & Sons, 1914. 762 p. illus.

A standard work of reference on pavements.

Crosby, W. W. The traffic census and its bearing on the selection of pavements. (*In* Proceedings of American Society for Municipal Improvements, 1915, p. 308–312.)

See also **2076.1,** article by Goodsell.

Knowles, M. Streets and pavements — classification of streets — pavement design — type and materials of pavements — accessory structures. (*In* his Industrial housing, 1920, p. 118–149. illus., tables, sections.)

Routh, J. W. Street classification as an aid to pavement design. (Municipal Journal, New York, Sept. 6, 1919; vol. 47, p. 148–149.)

Digest of opinions of municipal engineers.

Tillson, G. W. The street surface. (*In* Proceedings of 3d National Conference on City Planning, 1911, p. 207–215.)

See also files of *Good Roads, Public Roads* (issued by U. S. Dept. of Agriculture, Bureau of Public Roads, May 1918–Jan. 1922), *Public Works, Municipal and County Engineering,* etc.

Special Problems

2128 Adshead, S. D. Refuges and protection posts. (Town Planning Review, Oct. 1914; vol. 5, p. 225–226. illus.)

—**Boulevards** with safety isles in Marshalltown, Iowa. (American City, Dec. 1915; vol. 13, p. 523.)

Folwell, A. P. Isles of safety. (*In* his Municipal engineering practice, 1916, p. 159–162. illus., plan.)

Martin, J. A. An improved safety zone [Detroit]. (American City, May 1923; vol. 28, p. 452–453. illus., diagr.)

National Highway Traffic Association. Safety zones and parking regulations. Report of the National Committee on relative efficiency of different types of car stop safety zones and their relation to parking and ranking regulations, presented at the annual convention, Detroit, 1921. (Good Roads, July 27, 1921; vol. 61, p. 41–42, 46.)

2135 Farrier, C. W. Traffic storage at congested street crossings. Local widening of streets provides space where deviating traffic waits outside the lines of through traffic. (Engineering News-Record, Nov. 16, 1922; vol. 89, p. 845–846. diagr.)

Olmsted, F. L. Street traffic studies. (Landscape Architecture, Oct. 1910; vol. 1, p. 1–8. illus.)

As affecting the planning of street intersections.

Stübben, J. Strassenkreuzungen, Strassenerweiterungen und Strassenvermittelungen. (*In* his Der Städtebau, 1907, p. 127–147. plans.)

Triggs, H. I. [Street intersections.] (*In* his Town Planning, 1909, p. 148–162. illus., plans.)

Unwin, R. [Street intersections.] (*In* his Town planning, 1909, etc., p. 237–253. illus.)

Whitten, R. H. Plan for corner cut-offs on city streets to secure greater safety. (American City, Sept. 1920; vol. 23, p. 259–260. diagr.)

2159 Atwater, P. Sidewalks — public or private? (Community Leadership, published by American City Bureau, July 1921; vol. 2, no. 7, p. 6–7. illus.)

Experience in Minneapolis.

City Parks Association of Philadelphia. Sidewalk uglification. (*In* its 27th annual report, 1915, p. 57–64. illus.)

See also later reports of this Association and 7th annual report of Philadelphia Art Jury, 1917.

Hunt, F. A practical detail of city planning —Street widening in old New York an object lesson in Europe as well as America. (American City, Nov. 1912; vol. 7, p. 411–415. illus.)

An account of the removal of sidewalk encroachments in New York.

Street obstructions; Pavement obstructions. (*In* Practical street construction, *see* **2050,** p. 92–101, 233–242.)

Wheaton, W. Removing sidewalk encroachments in Albany. (American City, Apr. 1916; vol. 14, p. 346–347. illus.)

The final report of the New York Commission on Building Districts and Restrictions, 1916 (*see* **1600**) contains numerous illustrations of encroachments.

2161 Anderson, W. J., and R. P. Spiers. The colonnaded streets. (*In* their The architecture of Greece and Rome, London, B. T. Batsford, 1902, p. 163–166. illus.)

Baxter, S. Covered ways for a business district. (*In* Proceedings of 2d National Conference on City Planning, 1910, p. 149–152.)

Also in American City, Sept. 1910; vol. 3, p. 127–129.

Bosanquet, R. C. Broadways and colonnades — in Greek and Roman towns. (Town Planning Review, Jan. 1915; vol. 5, p. 287–289. plan.)

Hegemann, W., and E. Peets. Street arcades and colonnades. (*In* their American Vitruvius, 1922, p. 186–197. illus.)

Maltbie, M. R. Arcades and their usefulness in the modern city plan. (House and Garden, May 1914; vol. 5, p. 252–257. illus.)

Stübben, J. Passengen und Galerien. (*In* his Der Städtebau, 1907, p. 65–67. plans.)

Tuttle, A. S. Arcades to relieve street traffic — New York City. (Engineering News-Record, April 19, 1923; vol. 90, p. 710–711. illus., plans.)

Extract from his report made March 28 to the Mayor from the Board of Estimate and Apportionment of New York City.

Whitten, R. H. The use of sidewalk arcades in street widenings. (American City, Nov. 1920; vol. 23, p. 537, 539. plan.)

Proposals for Cleveland.

Major Traffic Streets and Squares

2170 Cheney, C. H. Traffic street plan and boulevard system adopted for Portland, Oregon. (American City, July 1921; vol. 25, p. 47–51. diagr.)

Donley, W. M. Main highways in metropolitan districts, construction, maintenance, and control. (*In* Proceedings of 13th National Conference on City Planning, 1921, p. 134–136.)

Pittsburgh Metropolitan District and Allegheny County.

Hailman, J. D. A major street plan for Pittsburgh. (*In* Proceedings of 13th National Conference on City Planning, 1921, p. 120–133.)

Hénard, E. Études sur les transformations de Paris. Fascicule 6 — La Circulation dans les villes modernes. L'Automobilisme et les Voies rayonnantes de Paris. Paris, Librairies-Imprimeries Réunies, 1905. p. 185–236. plans.

Lewis, N. P. Linking country roads to city streets. (American Contractor, Mar. 15, 1919; vol. 40, p. 25–26.)

Address at annual convention, American Road Builders' Association, New York, 1919.

—— Trunk highways and city thoroughfares. (*In* Proceedings of 12th National Conference on City Planning, 1920, p. 107–117.)

See also **1800.**

Practical street construction, *see* **2050.**

Note especially p. 26–44, 51–66.

Robinson, C. M. The location of main traffic streets; The width and development of main traffic streets. (*In* his City planning, 1916, p. 90–126. illus., plans, cross-section.)

Traffic ways (Kansas City, Mo.), by **C. Hill**). The relation of traffic ways to parks and boulevards, by **W. H. Dunn.** (*In* Proceedings of 9th National Conference on City Planning, 1917, p. 60–67; with discussion, p. 67–78. plan.)

Triggs, H. I. The circulation of traffic. (*In* his Town planning, 1909, p. 120–169. diagr., plans.)

Unwin, R. Of the arrangement of main roads, their treatment and planting. (*In* his Town planning, 1909, etc., p. 235–288. illus., plans, cross-sections.)

Whitten, R. H. Principles of design for a complete system of city thorofares. (American City, Oct. 1918; vol. 19, p. 257–261. illus.)

—— Thoroughfare plan and program for Cleveland, Ohio. (Engineering News-Record, Mar. 3, 1921; vol. 86, p. 382–386. plan, diagr.)

Note particularly the special city planning reports on major street plans for Pittsburgh (1910 and 1921), St. Louis (1917), Cleveland (1921), Portland, Ore. (1921), and Utica (1921).

2188 Church, T. A. Tunnel streets at San Francisco. (Municipal Journal, New York, June 3, 1915; vol. 38, p. 767–768.)

Major Traffic Streets and Squares (cont.)

Holland, C. M. Linking New York and New Jersey: the isolation of these two states from each other to be overcome by new vehicle tunnels. (American City, Mar. 1921; vol. 24, p. 231–232. plan.)

Situation summarized by T. A. Adams, chairman, New Jersey Interstate Bridge and Tunnel Commission in *Port of New York*, Mar. 1922.

2197 Shurtleff, A. A. Squares at traffic centres. (*In* Report of Massachusetts Metropolitan Improvements Commission, 1909, p. 206–210. plans.)

—— Traffic control and its application to the redesign of Copley Square, Boston. (Stone & Webster, Public Service Journal, Mar. 1915; vol. 16, p. 178–185. illus., plans.) *Also reprinted. Revised in* Landscape Architecture, Jan. 1916; vol. 6, p. 61–71.

Stübben, J. Verkehrsplätze. (*In* his Der Städtebau, 1907, p. 147–155. plans.)

See also **2076, 2135.**

Parkways, Boulevards, and Pleasure Roads

2205 Brodie, J. A., *see* **2105.**

Buchholz, W. Acquirement of Kansas City park and boulevard system and its effect on real estate values. (*In* Proceedings of 9th National Conference on City Planning, 1917, p. 96–105.)

Downer, J. The Bronx River Parkway. (*In* Proceedings of 9th National Conference on City Planning, 1917, p. 91–95. illus.)

See further the series of published reports of the Bronx Parkway Commission.

Fairmount Park Art Association. The Fairmount Parkway, a pictorial record of development from its first incorporation in the city plan in 1904 to the completion of the main drive from city hall to Fairmount Park in 1919. Philadelphia, The Association, 1919. [30 p.] illus., plans.

Geiger, C. W. Boulevards of San Francisco, California; notes on the history and construction of the scenic drives in and near the golden gate city. (Good Roads, Jan. 4, 1919; vol. 17, p. 1–3.)

Mawson, T. H. Boulevards, parkways, avenues and plantations. (*In* his Civic art, 1911, p. 147–158. illus., cross-sections.)

Olmsted Brothers. Classes of parkways. (*In* their Report on a proposed parkway system for Essex County, New Jersey, June 4, 1915; p. 3–15. cross-section.) By J. C. Olmsted.

Also in Landscape Architecture, Oct. 1915; vol. 6, p. 37–48; *and in* Park and Cemetery, Oct. 1915; vol. 25, p. 231–233.

Robinson, C. M. On great avenues; Parkways. (*In* his Modern civic art, 1918, etc., p. 206–227. 307–320. illus.)

—— Public reservations other than the streets. (*In* his City planning, 1916, p. 182–208. illus., plans.)

St. Louis City Plan Commission. Central traffic-parkway of St. Louis — report, Feb. 9, 1915. 39 p. illus., plans.

For information on boulevards and parkways see especially material on Paris, Vienna, Berlin, Düsseldorf, Washington, Boston, and Kansas City.

2212 Eliot, C. W., 2d. The influence of the automobile on the design of park roads. (Landscape Architecture, Oct. 1922; vol. 13, p. 27–37. diagr.)

Prepared as paper in the Harvard University School of Landscape Architecture.

2213 Bridle paths in parks. (Parks and Recreation, Jan. 1921; vol. 4, p. 148.)

Dinsmore, W. Bridle paths in city parks. (Park International, Nov. 1920; vol. 1, p. 245–249. illus.)

Local Business Streets and Squares

2230 Boston Chamber of Commerce. Street traffic in the city of Boston. A study made under the direction of the Governing Board of the Under Forty Division, Boston Chamber of Commerce, Boston, 1914. 61 p. and plans.

An example of the problems of local business streets, as well as of thoroughfares.

Fifth Avenue Association, New York. Note especially its little periodical *The Avenue* devoted to the interests of this famous shopping street.

A **"model"** business street. (American City, Feb. 1912; vol. 6, p. 492–493.)

Summarizes suggestion of T. F. Anderson in *New Boston*, Sept. 1911, for the building of a model street.

Hurd, R. M. Currents of travel. (*In* his Principles of city land values, 1903, p. 89–96.)
Discusses streets for retail shopping.

Parker, Barry. [Arrangement of shops about courts.] (*In* his Report on Oporto, Portugal, 1916, p. 9–16. plans. Printed in English at Garden City Press, Letchworth.)
Discusses also colonnades.
See also **2161.**

2233 Farr, A. A plea for better business centers in our suburban towns. (Architect and Engineer, Dec. 1918; vol. 55, p. 81–85. illus., plan.)
The example of Lake Forest, Ill.
See also **1627, 1630.**

2234 MacDonald, M. Return of the market place: how it helps the housewife to buy direct from the farmer. (Craftsman, Nov. 1913; vol. 25, p. 131–142. illus.)

Rappaport, P. A. Die Entwicklung des deutschen Marktplatzes. Berlin, W. Ernst & Sohn, 1914. 64 p. illus., plans. (Städtebauliche Vorträge, Bd. 7, Heft 3.)
See also **1443.**

Residential Streets and Squares

2235 Bouton, E. H. Local and minor streets. (*In* Nolen, J. *ed.*, City planning, 1916, p. 88–102. plans, cross-section.)

Davis, T. J. Ornamental street entrance designs for suburban districts. (American City, Apr. 1916; vol. 14, p. 351–355. illus.)
Examples from Southern California.

Robinson, C. M. The narrowing of minor residence streets as affecting tenant and owner. (*In* Proceedings of 3d National Conference on City Planning, 1911, p. 188–197.)

—— The platting of minor residence streets for high-class districts; The platting of minor streets for humble homes; The development of residential streets. (*In* his City planning, 1916, p. 127–162, 209–226. illus., plans.)

Unwin, R. Of site planning and residential roads. (*In* his Town planning in practice, 1909, etc., p. 289–318. illus., plans.)
See also **1675** ff.

2238 Cecil, E. Squares. (*In* her London parks and gardens, London, A. Constable & Co., 1907, p. 217–241. illus.)

Noyes, J. The "places" of St. Louis; an effective development of residential streets with building restrictions. (American City, Mar. 1915; vol. 12, p. 206–208. illus.)

Philadelphia Bureau of Surveys. Neighborhood squares and garden streets. (*In* its Annual report, 1915, p. 3–9. plans.)

Sherer, S. L. The "places" of St. Louis, a form of suburban community peculiar to the World's Fair City. (House and Garden, Apr. 1904; vol. 5, p. 187–191. illus., plans.)

Shurtleff, A. A. Squares in residential sections. (*In* Report of Massachusetts Metropolitan Improvements Commission, 1909, plans opp. p. 210.)

Stübben, J. Cités, Courts, Buildings. (*In* his Der Städtebau, 1907, p. 64–65. plans.)

Alleys

2242 Adams, T. Alleys — part of report on Ojibway plans. (Conservation of Life, Canada, Oct. 1918; vol. 14, p. 77–78.)

Bacon, Mrs. A. F. Alleys. (*In* Proceedings of 1st National Conference on Housing, Housing Problems in America, 1911, p. 39–46; with discussion, p. 136–140.)

Ball, C. B. The alley problem. (*In Ibid.*, 4th Conference, 1915, p. 131–140; with discussion, p. 141–148.)
Also in National Real Estate Journal, Oct. 15, 1915; vol. 12, p. 284–288.

Hornbostel, H., and others. The alleys. (*In* their Comprehensive plan of Johnstown, report to City Planning Commission and the City Council of Johnstown, Pa., 1917, p. 69–79. illus.)

Howell, W. A. Advantages and disadvantages of alley systems in large cities. (*In* Proceedings of American Society of Municipal Improvements, 1909; vol. 16 p. 187–193.)

The provision of secondary access to houses. (Housing, Aug. 30, 1919; vol. 1, p. 56–57. plans.)

Robinson, C. M. [Arguments for and against the inclusion of alleys in high-class residential subdivisions.] (*In* his City planning, 1916, p. 144–146.)
Also other references to alleys, *passim.*

U. S. Bureau of Industrial Housing, etc. Alleys. (*In* its Report of the United States Housing Corporation, vol. 2, 1919, p. 78.)
Illustrated by lay-out plans given in the report.

Alleys (cont.)

Veiller, L. Buildings in relation to street and site. (*In* Proceedings of 3d National Conference on City Planning, 1911, p. 80–117.)

Partly on alleys.

Among cities which have alley systems may be mentioned especially Baltimore, Washington, Louisville, Savannah, Detroit, and Chicago.

Footways. Sidewalks

2250 Robinson, C. M. The development of residential streets. (*In* his City planning, 1916, p. 209–226. illus.)

Lays especial emphasis on sidewalks and paths in residential districts.

2252 Blanchard, A. H., and H. B. Drowne. Sidewalks, curbs, and gutters. (*In* their Text book on highway engineering, 1914, p. 669–685. illus., cross-sections.)

Brooke, M. Sidewalks. (*In* Blanchard, A. H., *ed.*, American highway engineers' handbook, 1919, p. 1367–1382. illus.; with bibliography, p. 1394–1395.)

Fixmer, H. J., *see* **2105.**

Folwell, A. P. The street cross-section; Sidewalks, curbs, and gutters. (*In* his Municipal engineering practice, 1916, p. 81–90, 120–137. illus., plan.)

Grimes, J. L. The relation of sidewalks to shade tree planting. (American City, May 1913; vol. 8, p. 499–501. illus.)

For other references related to this subject, *see* **2116** and **4875** ff.

[**Paris** seriously considering moving sidewalks.] (American City, Mar. 1922; vol. 26, p. 281.)

Sidewalks, etc. (*In* Practical street construction, *see* **2050,** p. 114–124, 165–175, 223–232. illus.)

Standard specifications for concrete sidewalks will be found in the report of the United States Housing Corporation, vol. 2, and in the Proceedings of the American Society for Municipal Improvements, 1919 and 1920.

See also **2105,** for the sidewalk as a unit in planning street widths.

2253 Boecklin, W. Constructing automobile ramps and runways. (Country Life, in America, Oct. 1922; vol. 42, p. 78, 80, 82. illus., plans.)

Across sidewalks.

Street crossings and driveways — private driveways across sidewalks. (Municipal Journal and Engineer, Jan. 12, 1910; vol. 28, p. 54–55. illus., plans.)

Letter from F. L. Olmsted pursuant to this article, *Ibid.*, Feb. 9, p. 209.

2256 Olmsted, F. L. Notes upon the sizes of steps required for comfort. (Landscape Architecture, Jan. 1911; vol. 1, p. 84–90. diagr.)

Steps up San Francisco sidewalks. (Municipal Journal, New York, Feb. 8, 1919; vol. 46, p. 108. illus.)

Brief note on an interesting treatment of steep gradients.

Street Furniture

2290 Adshead, S. D. Utilitarian furnishings. (Town Planning Review, Oct. 1913; vol. 4, p. 192–194. illus.)

Folwell, A. P. Minor street details. (*In* his Municipal engineering practice, 1916, p. 156–176. illus.)

Kohler, J. H. Up-to-date business streets. (American City, Jan. 1919; vol. 20, p. 56–57. illus.)

An account of the improved furnishing of streets in Allentown, Pa.

McFarland, J. H. Furnishing the streets in suburban communities. (Suburban Life, Feb. 1911; vol. 12, p. 94–95. illus.) *Also reprinted.*

Pavement obstructions [and street furniture]. (*In* Practical street construction, *see* **2050,** illus.)

Also in Municipal Journal, New York, Sept. 14, 1916; vol. 41, p. 313–316.

Robinson, C. M. Furnishings of the street. (*In* his Modern civic art, 1918, etc., p. 138–165. illus.)

—— Making utilities beautiful. (*In* his Improvements of town and cities, 1913, etc., p. 94–112.)

Mr. Robinson's improvement reports listed in his bibliography (*see* **205**) contain many valuable suggestions on street furnishings.

Schopfer, J. The furnishing of a city, (Architectural Record, Jan. 1903; vol. 13. p. 42–48. illus.)

See also **3820** ff.

2292 Broderick, J. A. Types of street-name signs — New York and Boston. (American City, Apr. 1914; vol. 10, p. 344–345. illus.)

Folwell, A. P. Street name signs. (*In* his Municipal engineering practice, 1916, p. 284–296. illus.)

Marking city streets. (American City, Feb. 1914; vol. 10, p. 124–126. illus.)

Municipal Art Society of Hartford. Street name plates. Hartford, Conn., The Society, 1909. 33 p. illus. (Bulletin no. 12.)

Spencer, N. S. Street signs and fixtures. (Municipal Affairs, Sept. 1901; vol. 5, p. 726–737. illus.)

Wallis, R. S. Street-name signs. Ames, Iowa, Engineering Extension Dept., 1916. 47 p. illus. (Technical Service Bulletin 20, Official publication of Iowa State College, Mar. 10, 1916; vol. 14, no. 30.)

Partially reprinted in Municipal Journal, New York, July 27, 1916; vol. 41, p. 93–97.

Where should name signs be located at street intersections? An analysis and a suggested rational way of locating street signs. (American City, Apr. 1920; vol. 22, p. 380–381. diagr.)

2292.5 Highway signs and markers. (*In* Highways green book, published by American Automobile Association, 1921, p. 401–412. illus.)

Standard signs for all highways — Uniform signs that speak directly, clearly, and distinctly are needed thruout this country. (American City, Town and County Edition, May 1919; vol. 20, p. 417–422. illus.)

Standardized road signs in England: Ministry of Transport adopts new warning signs for use throughout England, Scotland, and Wales. (American City, Oct. 1921; vol. 25, p. 303–305. illus.)

2309 Byers, C. A. Electric-lighted islands at bad curve. (American City, Nov. 1921; vol. 25, p. 390. illus.)

Faber, D. C. The use of traffic signs. Ames, Iowa, Engineering Extension Dept., 1916. 12 p. illus., diagr. (Technical Service Bulletin 17, Official publication of Iowa State College, Dec. 20, 1916; vol. 15, no. 22.)

Gillespie, J. Street traffic zones and signals. (American City, Nov. 1916; vol. 15, p. 542–545. illus., diagr.)

New bronze traffic towers for Fifth Avenue — presented by Fifth Avenue Association. (American City, Feb. 1923; vol. 28, p. 173. illus.)

Drawing of this winning design given on p. 71 of *Ibid.*, Jan. 1922.

The **permanent** traffic guide: is it a protection or a menace? (American City, Mar. 1919; vol. 20, p. 260–262. illus.)

Street traffic signals. (Municipal Journal, New York, Nov. 4, 1915; vol. 39, p. 697. illus.)

Cleveland system.

See also **2076.3, 2292.5.**

Street Lighting

2310 Adshead, S. D. Lamp standards. (Town Planning Review, Jan. 1914; vol. 4, p. 292–296. illus.)

Allen, W. C. Notable development in ornamental street lighting. (American City, Apr. 1914; vol. 10, p. 365–368. illus.)

From an article in *General Electric Review*, Mar. 1914, relating to the new lighting system in Washington, D. C.

American Society for Municipal Improvements. Report of committee on street lighting. (*In* its Proceedings, 1920, p. 44–50. illus., diagr.)

Includes summary of Cleveland traffic-accident survey and discusses relation of accidents to lighting.

——. [Reports and papers on street lighting.] (*In* its Proceedings, 1921, *see index.*)

Anderson, E. A., and O. F. Haas. Illumination and traffic accidents. (Good Roads, Nov. 2, 1921; vol. 61, p. 209-212, 214. illus.)

Paper at annual convention of Illuminating Engineering Society, 1921. A similar paper by Mr. Anderson was given before the American Society for Municipal Improvements, 1921, and reprinted as Bulletin 46, National Lamp Works of the General Electric Co., May 5, 1922.

Cameron, A. D. Developments in electric street lighting units. (American City, Feb. 1920; vol. 22, p. 135–137. illus.)

Condensed from paper at the annual convention of the Illuminating Engineering Society.

Danley, P. Y. Modern systems of street lighting combine beauty and utility. (American City, Oct. 1919; vol. 21, p. 309–313. illus.)

Street Lighting (cont.)

Folwell, A. P. Street lighting. (*In* his Municipal engineering practice, 1916, p. 261–279. illus.)

Martin, K. G. Street lights and poles. Development of lighting standards — special designs for different districts. (Municipal Journal, New York, June 25, 1914; vol. 36, p. 934–935. illus.)

Minneapolis Civic & Commerce Association. Report on street illumination, July 1921. *Mimeographed.* [10 p. + plates.]

Contains an interesting analysis of the problem.

Principles and design of exterior illumination. Three lectures, by L. Bell and E. N. Wrightington. (*In* Lectures on illuminating engineering delivered at Johns Hopkins University, 1910, Baltimore, 1911, vol. 2, p. 795–884. illus.)

On both electric and gas lighting. Especially valuable.

Rose, S. L. E. and **H. E. Butler.** Modern electric street lighting: a discussion of incandescent and arc lamps from the standpoint of illumination. (American City, Mar. 1918; vol. 18, p. 241–246. illus., diagr.)

Ryan, W. D'A. History of illumination with special reference to the lighting of the Panama-Pacific Exposition and modern street lighting practice. (*In* Proceedings of American Society for Municipal Improvements, 1919, p. 324–347. illus.)

A comprehensive review of the subject.

Willoughby, A. A. Street lighting at the Panama-Pacific International Exposition. (American City, Mar. 1915; vol. 12, p. 252–254. illus.)

Wood, L. A. S. The adequate and attractive lighting of city streets. (American City, Dec. 1921, Jan. 1922; vol. 25, p. 465–468, vol. 26, p. 3–5. illus.)

From a paper presented before American Society for Municipal Improvements.

Systematic street lighting surveys such as that conducted by the Commission of Public Works, Milwaukee (Supplementary report, 1916), are of special interest.

Catalogues such as those of the Smyser-Royer Co., manufacturers of the lighting standards for Roland Park, Baltimore, Md., are useful for reference.

2320 Robinson, C. M. Temporary and occasional decoration. (*In* his Modern civic art, 1918, etc., p. 355–375. illus.)

STREET RAILROADS AND RAPID TRANSIT

2350 American Academy of Political and Social Science. Electric railway transportation. Philadelphia, 1911. 244 p. (*In* its Annals, Jan. 1911; vol. 37, no. 1. Whole no. 122.)

Arnold, B. J., *see* **2000,** and reports for San Francisco (see p. 44), Pittsburgh, Providence, Kansas City, etc.

Bibbins, J. R. City building and transportation. (Electric Railway Journal, May 22, 1920; vol. 55, p. 1061–1062.)

Abstract of paper given in full *in* Journal of Western Society of Engineers, Aug. 20, 1920.

Brinckerhoff, H. M. The effect of transportation upon the distribution of population in large cities. (*In* Proceedings of 13th National Conference on City Planning, 1921, p. 49–59; with discussion, p. 59–69.)

—— Functions of rapid transit lines in cities. (Engineering News-Record, Dec. 23, 1920; vol. 85, p. 1235–1239. illus., diagr. *See also* editorial note, p. 1211.)

Chicago Municipal Reference Library. A study of rapid transit in seven cities. Prepared under the direction of T. K. Long. 1914. 26 p. (Municipal Reference Bulletin no. 3.)

Davies, J. V. The effect of rapid transit on the city plan. (*In* Nolen, J., *ed.*, City planning, 1916, p. 314–332. illus., cross-section.)

—— Provision for future rapid transit: subway, elevated or open cut, and their influence on the city plan. (*In* Proceedings of 6th National Conference on City Planning, 1914, p. 194–211; with discussion, p. 228–264.)

Also reprinted.

Great Britain. Select Committee on Transport. [Metropolitan Area.] Report, together with the proceedings of the Committee, minutes of evidence, and appendices. London, H. M. Stationery Office, 1919. 446 p.

A collection of evidence on tubes, tramways, and busses. *See also* **2000, Great Britain.**

Massachusetts. Street Railway Investigation Committee. Report on the problems relating to the street railways of the Commonwealth. Pursuant to chapter 129 of the Resolves of 1917. Boston, State Printers, 1918. 423 p. illus., maps. (Senate Document no. 300.)

National Municipal League. A correct public policy toward the street railway problem; a report of the Committee on Public Utilities in which all previous reports are summarized and the unsolved elements of the problems listed. (National Municipal Review, Supplement, Apr. 1920; vol. 9, p. 251–267.)

Parsons, Barclay, & Klapp, *see* reports for Cleveland, Detroit, etc.

Philadelphia Transit Commissioner. Rapid transit in American cities. (*In* his Report, July 1913; vol. 1, p. 119–137. maps in vol. 2.)

Raschig, F. L. Cincinnati's rapid transit system and the city plan. (*In* Proceedings of the 12th National Conference on City Planning, 1920, p. 36–42.)

Ridgway, R. Subways for city transportation. (*In* Proceedings of American Society for Municipal Improvements, 1921, p. 339–357. illus.)

St. Louis City Plan Commission. The St. Louis transit system, present and future: report of St. Louis City Plan Commission, Harland Bartholomew, Engineer, to Board of Public Service. 1920. 36 p. maps, diagr.

Example of report as one of a related series of city plan studies.

Turner, D. L. The fundamentals of transit planning for cities. (*In* Proceedings of 14th National Conference on City Planning, 1922, p. 104–123; with discussion, p. 123–132.) *Also reprinted.*

Wilcox, D. F. Problems of reconstruction with respect to urban transportation. (National Municipal Review, Jan. 1919; vol. 8, p. 33–48.)

From paper before National Municipal League Conference, Rochester, 1918.

Abridged in American City, Dec. 1918; vol. 19, p. 440–444.

—— The surface street railway as a factor in modern life. (*In* his Municipal franchises, New York, Engineering News Publishing Co., 1911; vol. 2, p. 3–33.)

Note published reports on transit systems and street railroads for the following cities: Boston, Chicago, Cleveland, Detroit, Kansas City (Mo.), New York, Philadelphia, Pittsburgh, Providence, San Francisco, and St. Louis (*see* above). The titles and dates of these reports are given in *Municipal Accomplishment*, etc., *see* **0.**

2355 Fox, J. P. Relation between transit and housing. (*In* American Academy of Political and Social Science, Housing and town planning, 1914, p. 154–161.)

Hurd, R. M. [Effect of transit on land development.] (*In* his Principles of city land values, 1903, p. 94–96.)

Jackson, W. Zone fares for street railways: their relation to housing congestion and company finances. (National Municipal Review, Nov. 1920; vol. 9, p. 705–711.)

Whitten, R. H. Zone fares and city planning. (Electric Railway Journal, Nov. 1, 1919; vol. 54, p. 831.)

Summary of testimony before League of Municipalities.

Wright, H. C. Rapid transit in relation to housing. (*In* Proceedings of 2d National Conference on City Planning, 1910, p. 125–135.)

—— Transit and housing. (*In* Proceedings of 3d National Conference on Housing, Housing Problems in America, 1913, p. 68–74; with discussion, p. 173–183.)

Condensed in American City, Jan. 1914; vol. 10, p. 51–53.

Motor Busses in Relation to Transit

2358 Clark, H. C. Bus competition with electric railways in larger cities. A study of conditions in 100 largest cities in United States revealing attitude of public toward competitive local transportation systems. (Aera, Apr. 1923; vol. 10, p. 1101–1117.)

Fulton, R. E. The motor-bus *vs.* the street car. (Good Roads, Nov. 19, 1919; vol. 18, p. 223–224. illus.)

Jackson, W. Motor-busses will aid better city development. (American City, July 1920; vol. 23, p. 49–52. illus.)

—— The place of the motor bus. (National Municipal Review, Nov. 1922; vol. 11, p. 368–372.)

Motor Busses in Relation to Transit (cont.)

Keegan, G., and F. T. Wood. Transportation facilities of London and Paris, as of October 1913. [New York, 1915.] 126 p. illus.

Lane, F. Van Z. Relation of the motor bus to urban development. (American City, May 1914; vol. 10, p. 462–466. illus.)

McCollum, J. A. Utility of the motor bus and municipal problems pertaining to its operation. (*In* Proceedings of 6th National Conference on City Planning, 1914, p. 212–228; with discussion, p. 228–264.) *Also reprinted.*

Simmon, K. A. Trackless transportation *versus* rail transportation. (Electric Railway Journal, Feb. 11, 1922; vol. 59, p. 233–236.)
Discusses the trolley, auto bus and trackless trolley.

Car-tracks, Stations, and Terminals

2382 Robinson, C. M. [Advantages of the separate right-of-way for street railroads.] (*In* his City planning, 1916, p. 112–114. illus.)

2384 Folwell, A. P. Street railways. (*In* his Municipal engineering practice, 1916, p. 176–189. illus.)
Track arrangement.

Tillson, G. W. Car tracks. (*In* Blanchard, A. H., *ed.*, American highway engineers' handbook, 1919, p. 1277–1301. diagr., cross-sections; with bibliography, p. 1316–1318.)
See also **2105.**

2405 Nilsson, O. A. A study of rapid transit station design. (Engineering News-Record, Oct. 28, Nov. 4, 1920; vol. 85, p. 824–829, 894–899.)

2420 Cincinnati double-deck terminal for electric lines. (*Ibid.*, Aug. 10, 1922; vol. 89, p. 218–223. illus., plans.)

Damon, G. A. Interurban passenger terminals. (*In* Proceedings of 9th National Conference on City Planning, 1917, p. 3–16; with discussion, p. 21–27, and p. 253–258, on the location of the interurban station as related to the retail district.)
See also paper by Mr. Damon to be published in Conference Proceedings for 1923.

Fox, J. P. Subsurface terminals for street cars open to criticism. (American City, Nov. 1919; vol. 21, p. 419–422. plans.)
Discusses the Cleveland Rapid Transit report in relation to the experience of other American cities in putting surface street car lines under ground.

Schreiber, M. Public Service Terminal, Newark, N. J. (*In* Proceedings of 9th National Conference on City Planning, 1917; vol. 9, p. 17–27.)

RAILROADS

2450 American Institute of Architects. The relations of railways to city development. Papers read before the Institute, Washington, 1909. Published by the Board of Directors, Glenn Brown, *ed.* [1910.] 79 p. illus., plans.
The first paper by F. A. Delano was also published in the *Engineering Record*, Dec. 18, 1909.

Arnold, B. J. Influences affecting [railroad] terminal problem. (*In* his Report on the rearrangement and development of the steam railroad terminals of the city of Chicago, submitted to the Citizen's Terminal Plan Committee of Chicago, Nov. 18, 1913, p. 53–56.)

Baldwin, W. Terminal problems in the city plan of Cincinnati. (*In* Proceedings of 12th National Conference on City Planning, 1920, p. 60–70; with discussion, p. 70–75.)
History of a typical situation.

Chicago Railway Terminal Commission. Preliminary report, submitted to City Council Committee on Railway Terminals. Mar. 29, 1915. 144 p. diagr., maps.
Contains account of trip to study European terminals.

Lay, C. D. The railway problem as a town planner sees it. (Landscape Architecture, July 1921; vol. 11, p. 191–199.)

Fort, E. J. The steam railroad in relation to the city plan. (*In* Proceedings of 11th National Conference on City Planning, 1919; vol. 11, p. 52–60; with discussion, 60–76.)
Condensed in Engineering News-Record, June 5, 1919; vol. 82, p. 1099.

National Conference on City Planning. Unification of railroad lines and service in cities. Report of committee of investigation. (*In* Proceedings of 12th National Conference on City Planning, 1920, p. 56–59.) *Also reprinted.*
Also in National Municipal Review, June 1920; vol. 9, p. 351–353.

St. Louis Engineers Committee. Report [on] St. Louis-East St. Louis railroad terminals. St. Louis, C. H. Smith & Co., consulting engineers, 1922. 378 p. plans.

Wadsworth, G. R. Railroads — the framework of the city plan. The problem and its study. (*In* Proceedings of 2d National Conference on City Planning, 1910, p. 140–146.)

—— Railroads and industrial districts. (*In* Nolen, J., *ed.*, City planning, 1916, p. 264–278. illus., plans.)

Wallace, J. F. Report of Chicago Railway Terminal Commission submitted to the Mayor and City Council, Mar. 1921. [Chicago, The Commission, 1921.] 33 p. plates, plans.

Reviews progress in dealing with a very difficult situation.

Wilgus, W. J. Relation of the railroad terminal problem to city planning. (Engineering News-Record, May 6, 1920; vol. 84, p. 901–902. diagr.)

Paper based on studies for National Conference on City Planning.

Also in Engineering and Contracting, May 19, 1920; *and* Railway Age, Apr. 30, 1920.

Electrification

2457 Chicago Association of Commerce. Committee of Investigation on Smoke Abatement and Electrification of Railway Terminals. The electrification of steam railroads — a review. (*In* its Report, Chicago, Rand, McNally & Co., 1915, p. 630–697. maps.)

The **electrification** of the New York Central and its effect on property values. Discussion led by L. Purdy. (*In* Proceedings of 9th National Conference on City Planning, 1917, p. 236–253.)

Grand Central development seen as great civic center. (Engineering News-Record, Sept. 9, 1920; vol. 85, p. 496–504. illus.) *Also reprinted.*

Of special interest as showing effect of electrification of terminals.

Rights of Way. Stations and Grounds

2460 Lee, I. L. Making the railroad gateways of the city attractive. (American City, Sept. 1922; vol. 27, p. 221–224. illus.)

Pray, J. S. Railroad grounds; a study of their design, planting and relation to community. (Parks and Recreation, July–Dec. 1921; vol. 4, p. 332–338, vol. 5, p. 68–74, 156–164. illus., plans.) *Also reprinted.*

Robinson, C. M. The land approach. (*In* his Modern civic art, 1918, etc., p. 59–80. illus.)

2480 Analysis of principles affecting passenger station design. (Engineering News-Record, Mar. 29, 1923; vol. 90, p. 574.)

Abstract of a report submitted by the Committee on Yards and Terminals to the annual convention of the American Railway Engineering Association, Chicago, Mar. 1923.

Architectural beauty in the civic gateway of today. (Craftsman, Apr. 1915; vol. 23, p. 78–91, 117–118. illus.)

Stations of various types.

Crossland, J. The placing, design, and arrangement of railway terminals. (*In* Town Planning Institute, London, Papers and discussions, 1915–16; vol. 2, p. 29–43; with discussion, p. 44–47. illus., plans.)

Dunn, S. O. The problem of the modern terminal. (Scribner's, Oct. 1912; vol. 52, p. 416–442. illus.)

Elliott, H. Modern city gates. (Architectural Review, May 1912; N.S. vol. 1, p. 49–55. illus.)

On railroad terminal stations.

Richardson, W. S. The terminal — the gate of the city. (Scribner's Magazine, Oct. 1912; vol. 52, p. 401–416. illus.)

2486 Robinson, C. M. The square before the railroad station. (House and Garden, Aug. 1902; vol. 2, p. 377–386. illus., plan.)

2487 McFarland, J. H. How to improve railroad stations and their surroundings. (American City, Nov. 1913; vol. 9, p. 440–444. illus.)

Robinson, C. M. Suburban station grounds. (House and Garden, Apr. 1904; vol. 5, p. 182–187. illus., plans.) *Also reprinted.*

Seavey, F. C. Railroad-gardening. (*In* Bailey's Standard cyclopedia of horticulture, 1916; vol. 5, p. 2898–2903. illus., plans.)

Simonds, O. C. The grounds of railway stations and rights of ways. (*In* his Landscape gardening, 1920, p. 224–231. plan.)

Waugh, F. A. Railroad station grounds. (*In* his Landscape gardening, 1922, p. 170–177. illus., plans.)

—— Rural railway station grounds. (American City, Town and County Edition, May 1915; vol. 12, p. 378–380. plans.)

Freight Terminals

2495 Amberg, E., and W. H. Allen. How delivery zones will reduce freight traffic. (American City, Sept. 1918; vol. 19, p. 179–180. maps.)

Droege, J. A. Freight terminals and trains; including a revision of yards and terminals. New York, McGraw-Hill Book Co., 1912. 465 p. illus.

Kimball, G. H. Unified terminal operation held essential to economy. (Engineering News-Record, May 26, 1921; vol. 86, p. 893.)
Abstract of paper before Buffalo Section, American Society of Civil Engineers.

Loree, L. F. Terminal depots and adjuncts. (*In* his Railroad freight transportation, New York, D. Appleton & Co., 1922, p. 34–62.)

Elimination of Grade Crossings

2510 California. Railroad Commission. Engineering department. Report on railroad grade crossing elimination and passenger and freight terminals in Los Angeles. San Francisco, 1920. 587 p. illus., maps, diagr.
Contains useful compiled information.

Detroit Dept. of Public Works. Abstract of laws governing grade separation in various states — division of cost. (*In* its Report on grade separation, prepared by Division of Grade Separation and Bridges, 1918, p. 53–57.)

Philadelphia Dept. of Public Works. South Philadelphia: the abolishment of grade crossings and the creation of opportunities for commercial and industrial development. Philadelphia, 1913. 72 p. illus., plan.
A comprehensive scheme related to the city plan and port development.

St. Louis Public Library. Grade crossing elimination in American cities. (Monthly Bulletin of the Municipal Reference Branch, July 1913; p. 156–174.)

Swan, H. S., and G. W. Tuttle. Separation of street and railroad grades, Paterson, N. J. A report of the City Plan Commission. Paterson, 1922. 29 p. illus., plans, cross-sections.
Contains useful series of photographs of viaduct crossings.

Syracuse, N. Y., Grade Crossing Commission. Report on grade crossing elimination in the city of Syracuse; findings of the Grade Crossing Commission and report of B. J. Arnold, consulting engineer, 1917. 101 p. illus., maps, plans.
Of particular interest on account of the well-known grade crossing situation in Syracuse.

Wagner, S. T. Railroad grade crossing elimination. (American City, Nov. 1920; vol. 23, p. 479–482. illus., diagr.)
Reprinted from J. E. Aldred Lectures on Engineering Practice, Johns Hopkins University, 1919–20.

Watson, M. W. Grade crossing elimination procedure: summary of laws, methods of carrying on work and distribution of the cost in several states. (Good Roads, Jan. 18, 1919; vol. 17, p. 22–24.)
From paper at annual meeting of the American Association of State Highway Officials, Chicago, 1918.

Wiley, R. The proper engineering treatment of necessary railroad grade crossings. (*Ibid.*, Dec. 21, 1918; vol. 16, p. 241–243.)
Paper at annual meeting of American Association of State Highway Officials, Chicago, 1918.
Also abridged in: American City, Town and County Edition, Dec. 1918; vol. 19, p. 451–453. illus.

WATERWAYS AND COMMERCIAL WATERFRONTS

2550 American Association of Port Authorities. Selected bibliography on ports and harbors and their administration, laws, finance, equipment and engineering. Compiled by W. J. Barney, Secretary. New York, 1916. 144 p.
A valuable bibliography, containing a large number of references to ports of the United States, as well as to foreign ports.

MacElwee, R. S. Ports and terminal facilities. New York, McGraw-Hill Book Co., 1918. 315 p. illus., plans.
Contains bibliography.

U. S. Bureau of Foreign and Domestic Commerce. Ports of the United States. Report on terminal facilities, commerce, port charges, and administration at sixty-eight selected ports, by G. M. Jones, commercial agent. Washington, Govt. Printing Office, 1916. 431 p. maps.

Baltimore Port Development Commission. The port development plan of Baltimore. (Municipal Journal, Baltimore, Apr. 7, 1922; vol. 10, no. 7, p. 2–10. illus., plan.)

Full report published, 1922.

Clapp, E. J. The port of Boston; a study and a solution of the traffic and operating problems of Boston, and its place in the competition of the North Atlantic seaports. New Haven, Yale University Press, 1916. 402 p. illus., maps, plans.

—— The port of Hamburg. New Haven, Yale University Press, 1911. 220 p. illus., plan.

A comprehensive study.

Fitzgerald, D. Docks. (*In* Report of Massachusetts Metropolitan Improvements Commission, 1909, p. 155–186. illus., plans.)

Includes account of European docks, as well as plans for Boston port development.

Ford, F. L. A study of some representative European ports in the summer of 1909. (*In* Report of Connecticut Rivers and Harbors Commission, 1911, p. 23–71. illus., plans.)

Gahn, H. C. Lake ports; presented at the convention of the National Association of Port Authorities, at Baltimore, Sept. 10, 1914. 29 p. illus., plans. (Cleveland River and Harbor Commission.)

Goode, J. P. The development of commercial ports. I. What the ports of Europe are doing. — II. Chicago's commercial opportunity. (*In* Report of the Chicago Harbor Commission, 1909, p. 61–161. illus., plans.)

Also published separately.

Goodrich, E. P. Navigable waters. (*In* Nolen, J. *ed.*, City planning, 1916, p. 227–263. illus., plans.)

Gourlay, R. S. Basic principles of waterfront development as illustrated by plans of Toronto Harbor Commissioners. (*In* Proceedings of 6th National Conference on City Planning, 1914, p. 17–31; with discussion, p. 31–53. plan.)

Follows: *Toronto waterfront development*, 1912–1920, report of Toronto Harbor Commission.

Greiner, J. E. The port and the municipality. (*In* Proceedings of American Society for Municipal Improvements, 1921, p. 358–363.)

New York, New Jersey Port and Harbor Development Commission. Joint report with comprehensive plan and recommendations. Albany, State Printers, 1920. 495 p. illus., plans, diagr.

A compendium of information. The Port of New York Authority Report of Dec.21, 1921 was based on this plan.

Philadelphia Dept. of Public Works, *see* **2510.**

Seattle Municipal Plans Commission. Port of Seattle. (*In* its Plan of Seattle, submitting report of V. G. Bogue, engineer, 1911, p. 61–110. illus., plans.)

A valuable report.

Staniford, C. W. Report on the physical characteristics of European seaports, 1911. 47 p. illus., plans. (New York City Dept. of Docks and Ferries, no. 9a.)

Tomkins, C. Seaport congestion and its relation to transportation and terminal facilities. (*In* Proceedings of 2d National Conference on City Planning, 1910, p. 136–139.)

—— The waterfront and the city plan. (*In* American Academy of Political and Social Science, Housing and Town Planning, 1914, p. 222–227.)

U. S. Dept. of State. European waterways. Reports of consular officers of the United States located in Germany, Austria Hungary, France, Belgium, and the Netherlands, on river and harbor improvements in their respective districts. Washington, 1909. 138 p. (National Waterways Commission, Document no. 7.)

U. S. Shipping Board. Port and harbor facilities commission. English port facilities, by F. T. Chambers. Washington, Govt. Printing Office, 1919. 387 p. maps, tables.

The water terminal problem. Papers by G. E. Hooker, G. C. Sikes, C. Tomkins, J. F. Hasskarl, T. E. Gibbon, A. P. Fleming, and O. F. Lackey. (*In* Proceedings of 3d National Conference on City Planning, 1911, p. 131–183.)

Whitham, P. P. The port terminal factor of municipal planning; from a paper presented at convention of League of Washington Municipalities. (American City, Dec. 1916; vol. 15, p. 631–638. illus., plans.)

Other papers by the same author are listed in the bibliography of the American Association of Port Authorities.

Waterways, etc. (cont.)

The annual reports and booklets of the port commissions or authorities of Baltimore, New Orleans, Los Angeles, Seattle, etc., and the reports of the London Port Authority on the development of the port of London, should be noted.

See also **4370,** Recreational waterfronts.

2555 Nimmons, G. C. Modern industrial plants: Part 5. The great army supply bases and quartermasters' terminals of the United States Government constructed along the eastern coast for war purposes. (Architectural Record, Mar. 1919; vol. 45, p. 262–282. illus., plans.)

Inland Waterways

2580 Bell, J. F. River transportation in city planning. (*In* Proceedings of 13th National Conference on City Planning, 1921, p. 96–101.)

Nettlefold, J. S. Garden cities and canals. London, St. Catherine Press, 1914. 220 p. maps.

Inland waterway reform proposed for Great Britain.

Roy, S. J. Waterways and city planning. (*In* Proceedings of 10th National Conference on City Planning, 1918; vol. 10, p. 160–163.)

St. Louis City Plan Commission. St. Louis river front: Municipal terminals for boats and railroads. Conferences of governors and delegates from river cities. Reports of City Plan Commission, 1913–1915. 62 p. plan.

Scherzer, A. H. The relation of rivers to city plans. (American City, Sept. 1912; vol.7, p. 219–221. illus.)

U. S. National Waterways Commission, *see* **6620.**

Free Ports

2729 How free port would increase foreign trade; interesting and instructive discussion of the relation of "market ports" to world commerce here and abroad. (Greater New York, Apr. 12, 1915; vol. 4, no. 15, p. 5–8.)

McGuirk, A. What free zones mean to the United States, a statement by the President of the National Free Zone Association. (Municipal Journal, Baltimore, Sept. 12, 1919; vol. 7, no. 17, p. 6, 7.)

The National Free Zone Association is created. (Greater New York, July 7, 1919; vol. 8, p. 1–10.)

Detailed account of meeting and organization.

Page, T. W. Why we need free ports. (Saturday Evening Post, Feb. 4, 1922; p. 21, 45–46. illus.)

What is a free port? What are their advantages? Shall Baltimore be a free port? (Municipal Journal, Baltimore, July 11, 1919; vol. 7, no. 13, p. 1.)

AERIAL TRANSPORTATION TERMINALS

2795 Aerial station at Syracuse. (*In* Syracuse City Planning Commission, City planning for Syracuse, 1919, p. 29–31. illus.)

An example of provision for air terminals in a city plan.

Black, A. How to lay out and build an airplane landing field. (Engineering News-Record, Sept. 28, 1922; vol. 89, p. 504–507. plans.)

—— The municipal air terminal. (National Municipal Review, Mar. 1923; vol. 12, p. 123–126.)

Municipal landing fields for air service: statement of the War Department's policy. (American City, July 1919; vol. 21, p. 20–23. illus.)

Municipally-owned landing fields. (Engineering News-Record, Aug. 28, 1919; vol. 83, p. 413.)

For air service.

Wheat, G. S., *ed.* Municipal landing fields and air ports, with chapters by the chief of the army air service, the director of naval aviation, and their officers in charge of landing field operations. New York, G. P. Putnam's Sons, 1920. 96 p. illus., map, diagrs.

CONDUITS AND WIRES SUBSURFACE UTILITIES

2850 Blanchard, A. H., and H. B. Drowne. Pipe systems. (*In* their Textbook on highway engineering, 1914, p. 636–642. plan.)

Dumond, L. A. Lessons from European practice in locating public utility structures. (American City, July 1915; vol. 13, p. 1–6. cross-sections.)

Chicago Commission on Down-Town Municipal Improvements. Progress report on relief for sub-surface congestion in the down-

town Chicago streets. Alvord & Burdick, Engineers. L. A. Dumond, Secretary-Engineer for Commission. Dec. 31, 1914. 58 p. plans, cross-sections.

Valuable appendices on European and American practice in the accommodation of public utility pipes and conduits.

Knowles, M. Cost of utilities and street improvements as affected by the size of residence lots. (Canadian Engineer, Oct. 23, 1919; vol. 37, p. 404, 409.)

Unrevised draft of paper before American City Planning Institute.

—— Industrial housing. *See* **1697.**

Note chapters on water-supply, sewerage and drainage, and gas and electric service.

New York (City) Board of Estimate and Apportionment. Report of [Nelson P. Lewis] Chief Engineer, giving results of an inspection of pipe subways in European cities. Oct. 4, 1910. 21 p.

Rankin, E. S. The relation of zoning to the work of the city engineer. (*In* Proceedings of the American Society for Municipal Improvements, 1920, p. 70–72.)

Economies effected by zoning in pavements, water supply and sewerage systems.

Also abstracted in several engineering magazines, including Engineering News-Record, Nov. 4, 1920; vol. 85, p. 884.

Tillson, G. W. Subsurface work. (*In* Blanchard, A. H., *ed.* American highway engineers' handbook, 1919, p. 1301–1316; with bibliography, p. 1316–1318.)

U. S. Bureau of Industrial Housing and Transportation. Tentative instructions to engineering designers for sewerage, sewage treatment, drainage, gas, electricity, and street improvements of industrial housing developments. (*In* its Report of the United States Housing Corporation, 1919, vol. 2, p. 449–492. illus.)

Webster, G. S. Subsurface structures. (*In* Proceedings of 3d National Conference on City Planning, 1911, p. 216–228.)

Water-supply Distribution and Sewerage Systems

2880 Hazen, A. Water supply; Sewerage; Irrigation. (*In* Merriman, M., *ed.* American civil engineers' handbook, 1920, p. 1190–1284. diagr.)

Williams, G. S., and A. Hazen. Hydraulic tables, the elements of gagings and the friction of water flowing in pipes, aqueducts, sewers, etc., as determined by the Hazen and Williams formula and the flow of water over sharp-edged and irregular weirs, and the quantity discharged, as determined by Bazin's formula and experimental investigations upon large models. 3d rev. ed. New York, John Wiley & Sons, 1920. 115 p.

2885 Flinn, A. D., R. S. Weston, and C. L. Bogert. Waterworks handbook. New York, McGraw Hill Book Co., 1916. 824 p. illus., diagr.

Turneaure, F. E., and H. L. Russell. Works for the distribution of water. (*In* their Public water supplies, 1908, p. 551–795. illus.)

2890 Babbitt, H. E. Sewerage and sewage treatment. New York, John Wiley & Sons, 1922. 531 p. illus.

Folwell, A. P. Sewerage. 9th ed. New York, John Wiley & Sons, 1923. 479 p. illus., diagr.

Includes latest methods of sewage treatment.

Horner, W. W. Effect of city zoning on sewerage system design and cost. (Engineering News-Record, Feb. 21, 1918; vol. 80, p. 368–369.)

Metcalf, L., and H. P. Eddy. Sewerage and sewage disposal; a textbook. 1st ed. New York, McGraw-Hill Book Co., 1922. 598 p. illus., maps, diagr.

An abridgment of the three-volume work by the same authors: *American Sewerage Practice.*

Central Heating Systems

2902 Butler, J. C. The central heating plant — a public utility. (American City, Jan. 1922; vol. 26, p. 47–49. illus.)

As carried on in Chicago by the Illinois Maintenance Company.

Community heating of dwellings; economy cleanliness and convenience of central station heating as compared with house furnaces — heating as the prime object and electric current as the by-product. (Municipal Journal, New York, Apr. 5, 1919; vol. 46, p. 249–252.)

Central Heating Systems (cont.)

Martenis, J. V. Central station heating with special reference to Minnesota. (American City, Aug. 1916; vol. 15, p. 164–167. illus.)

White, J. C. Central station heating; its economic features with reference to community service. Washington, Govt. Printing Office, 1918. 23 p. diagr. (U. S. Dept. of Interior Bureau of Mines. Technical Paper 191.)

Electric Wires

2915 Burnand, G. C. Distribution and wiring as applied to town planning. (Electrician, London, Apr. 8, 1921; vol. 86, p. 428–429.)

Goob, C. F. Electrical conduits of Baltimore. (*In* Proceedings of American Society for Municipal Improvements, 1921, p. 48–54.)
Experience of Baltimore in electric distribution systems.

2922 Rhodes, S. A. Gains against the nuisances. I. Overhead wire construction. (National Municipal Review, Sept. 1922; vol. 11, p. 262–265.)

Bostwick, A. L. Overhead wires in streets; removal of wires and poles from streets, with special reference to the prohibition of new overhead construction. (Municipal Journal, New York, June 8, 1916; vol. 40, p. 793–794.)

Carhart, A. H. The tree *versus* the public utility wire. (American City, Town and County Edition, May 1917; vol. 16, p. 464–470. illus.)

Electric Power Supply

2926 Federal water power projects up to Dec. 1921. (Engineering News-Record, Jan. 5, 1922; vol. 88, p. 24–26.)
Extract from annual report of the Federal Water Power Commission, Dec. 1921.

Great Britain. Ministry of Reconstruction. Coal Conservation Committee. Final report. London, H. M. Stationery Office, 1918. 89 p. tables, maps.

—— **Advisory council.** Report of the committee of chairmen on electric power supply. London, H. M. Stationery Office, 1919. 8 p.

Wells, J. P. Hydroelectric power for American cities. (American City, Mar. 1921; vol. 24, p. 295, 297.)

BLOCKS AND LOTS
LAND SUBDIVISION

3000 Hurd, R. M. Ground plan of cities. (*In* his Principles of city land values, 1903, p. 33–55. illus., plans.)
Discusses lot units as basis for plats.

Lewis, N. P., *see* **1800.**

Nolen, J. The subdivision of land. (*In* his City planning, 1916, p. 19–47. plans, diagr.)
Contains bibliography.

Robinson, C. M. City planning, with special reference to the planning of streets and lots. New York, G. P. Putnam's Sons, 1916. 344 p. illus., plans.
Note especially p. 127–226.
For references to figures of block sizes, see index, p. 332.
For Platting in its larger aspects, *see* **1800,** and for Platting legislation, **770.**

3014 Bouton, E. H. The financial effect of good planning in land subdivision. (City Plan, Oct. 1916; vol. 2, no. 3, p. 8–10.)

Nichols, J. C. Financial effect of good planning in land subdivision. (*In* Proceedings of 8th National Conference on City Planning, 1916, p. 91–106; with discussion, p. 106–118.)

Restrictions

3020 Bassett, E. M. Zoning *versus* private restrictions. (National Real Estate Journal, Jan. 2, 1922; vol. 23, p. 26.)
Also in other periodicals.

Taylor, A. S. Districting through private effort. (*In* Proceedings of 8th National Conference on City Planning, 1916, p. 177–183.)
On restrictions in deeds for residential subdivisions.

The published restrictions for the following residential developments should be especially noted: Guilford (Roland Park Co.), Baltimore; Forest Hills Gardens (Sage Foundation Homes Co.), L. I.; Country Club District (J. C. Nichols), Kansas City, Mo.; Brendonwood (Charles S. Lewis), Indianapolis; Shaker Heights (Shaker Heights Improvement Co.), Cleveland; Colony Hills (Colony Hills Trust), Springfield, Mass.; Larchwood (F. W. Norris Co.), Cambridge, Mass.; Chatham Fields (William E. Harmon & Co.), Chicago; and Goodyear Heights (Goodyear Tire & Rubber Co.), Akron, O.

Special Problems

3065 Augur, T. B. Street cross-sections, side grading and house location on steep slopes in low-cost housing developments. (Landscape Architecture, Oct. 1920; vol. 11, p. 25–38. cross-sections.)

Lloyd, T. A. Town planning in Wales with special reference to the development of hilly sites. (*In* Town Planning Institute, London, Papers and discussions, 1916–17; vol. 3, p. 15–27; with discussion, p. 28–32. plan, cross-section.)

Olmsted, F. L. Steep hillsides. (*In* his Pittsburgh main thoroughfares and the downtown district, 1911, p. 109–112. illus.)

3089 Colton, A. W. Turtle Bay Gardens, New York City. (Architectural Record, Dec. 1920; vol. 48, no. 6, p. 467–493. illus.)

An example of the utilization of the block interior. Another description will be found in the *National Real Estate Journal*, Aug. 29, 1921.

Herding, F. J. Block interior parks. (Park International, Mar. 1921; vol. 2, p. 116–125. illus., plans.)

3304 Olmsted, F. L., Sr. On dooryard fences in village streets. (Landscape Architecture, Oct. 1920; vol. 11, p. 13–15.)

Selected from the Olmsted Papers.

Residential Subdivision

3380 Hubbard, H. V., and **T. Kimball.** Land subdivision for residential purposes. (*In* their Introduction to the study of landscape design, 1917, p. 275–294. plans.)

Also in Landscape Architecture, Oct. 1917; vol. 8, p. 23–43.

National Conference on City Planning. City planning study, 1913. *See* **880.**

National Conference on City Planning. The "best methods of land subdivision": Reports of Conference Committee, Local Committees, paper by P. A. Harsch and discussion by J. Nolen and others. (*In* Proceedings of 7th National Conference on City Planning, 1915, p. 42–106, 247–273.)

Discussion by E. P. Goodrich *in* City Plan, Oct. 1915; vol. 1, no. 3, p. 7–11. plan.

National Association of Real Estate Boards. Subdivision — gist of a conference on this subject at the 14th annual convention in Chicago. Part I, by E. W. Chaillé, W. Zelosky, W. Britigan; with discussion. — Part II, by J. C. Nichols. (National Real Estate Journal, Sept. 26, Oct. 24, 1921; vol. 22, no. 20, p. 46–50, no. 22, p. 37–39.)

Nichols, J. C. Real estate subdivisions: the best manner of handling them. 15 p. (American Civic Association, Dept. of City Making. Ser. II, no. 5, Nov. 1912 and Feb. 1916.)

Olmsted, F. L. Land subdivision from the point of view of a development company. (*In* Proceedings of 4th National Conference on Housing, Housing problems in America, 1915, p. 158–174. table.)

Also in Real Estate Magazine, Oct. 1915; vol. 6, p. 43–50.

Pepler, G. L. Economics of town planning in relation to land development. (*In* Town Planning Institute, London, Papers and discussions, 1914–15; vol. 1, p. 63–68; with discussion, p. 69–77.)

Robinson, C. M. Platting of minor residence streets for high-class districts; Platting of minor streets for humble homes; Lot platting for humble homes and factory removal. (*In* his City planning, 1916, p. 127–181. illus., plans.)

Thompson, L. Site planning in practice. *See* **1697.**

Unwin, R. Of site planning and residential roads; Of plots and the spacing and placing of buildings and fences; Of coöperation in site planning and how common enjoyment benefits the individual. (*In* his Town planning, 1909, etc., p. 289–360, 375–386. illus., plans.)

Wright, H. The commercial value of land platting for a definite use, Part II. (National Real Estate Journal, August 15, 1921; vol. 22, no. 17, p. 16–18; illus., plan.)

Yeomans, A. B., *ed.* City residential land development: studies in planning. Competitive plans for subdividing a typical quarter section of land in the outskirts of Chicago. Chicago, University of Chicago Press, [1916]. 138 p. illus., plans.

See also **1675** ff., Residential districts.

The files of the *National Real Estate Journal* contain descriptions of individual subdivisions, both high and low cost, in various parts of the country.

Residential Subdivision (cont.)

3395 Cadbury, G., Jr. Gardens and allotments. (*In* his Town planning, with special reference to the Birmingham schemes, 1915, p. 113–121.)

A brief summary of British experience in providing space for gardens.

Comey, A. C. Lot and block units for homes of moderate price. (Canadian Engineer, Oct. 23, 1919; vol. 37, p. 425–426.)

Unrevised draft of paper before American City Planning Institute.

Also in Municipal and County Engineering, Jan. 1920; vol. 58, p. 30, 32.

Ford, J. Lot units and housing. (*In* his Housing report to City Plan Commission of Newark, N. J., 1913, p. 68–72.)

Nolen, J. The effect of land subdivision upon housing and public health. (*In* Proceedings of second Pan American Scientific Congress, Dec. 27, 1915–Jan. 8, 1916, p. 387–393.)

Contains bibliography.

——. Land subdivision and its effect upon housing, and discussion by L. J. Ninde. (*In* Proceedings of 4th National Conference on Housing, Housing problems in America, 1915, p. 33–52; with discussion, p. 53–64.)

Includes tabulation of lot sizes, etc.

Also in National Real Estate Journal, Oct. 15, 1915; vol. 12, p. 259–268.

Ontario. Housing Committee. Report on the treatment of the surroundings of the small home, including (1) The subdivision of land for industrial housing and (2) The layout of the individual lot. Toronto, Govt. Printer, 1919. 35 p. illus., plans.

Pamphlet prepared by H. B. and L. A. Dunington-Grubb, for Ontario Housing Committee.

St. Louis City Plan Commission. Land subdivision in relation to the housing problem; with sketch plans of economical lay-outs, by H. Wright. (*In* its Housing problems in St. Louis, 1920, p. 47–50. plan.)

U. S. Bureau of Industrial Housing and Transportation. The housing project; some considerations as to costs and types of development. (*In* its Report of the United States Housing Corporation, 1919, vol. 2, p. 75–80)

Tables 7–11, p. 406–434, should also be consulted.

Veiller, L. A model housing law. 2d rev. ed. New York, Russell Sage Foundation, 1920. 430 p. illus., plans.

Contains numerous references to sizes of blocks and lots mainly for tenement houses.

See also **1697,** Low-cost residential districts.

STRUCTURES

For structures in connection with transportation, *see* **2000 ff.**

3415 The architectural side of city planning. Papers by F. L. Ackerman, A. A. Stoughton, and G. B. Ford. (*In* Proceedings of the 7th National Conference on City Planning, 1915, p. 107–134.)

Baxter, S. Art in public works: aqueducts, water-towers, power-houses, reservoirs, bridges. (Century, Oct. 1902; vol. 64, p. 912–921. illus.)

Edwards, A. T. On the influence of town planning upon architectural style. (Town Plan'g Review, Jan. 1915; vol. 5, p. 268–278.)

In relation to the various structures which compose the city.

BUILDINGS

Esthetic Aspects

3455 Bourne, F. A. Harmony in the character of the surburban street. (House Beautiful, Feb. 1918; vol. 43, p. 138–139, 174–175. illus.)

Edwards, A. T. On monotony in street architecture. (Town Planning Review, May 1922; vol. 9, p. 239–246. illus.)

Ferriss, H. Civic architecture of the immediate future. (Arts and Decoration, Nov. 1922; vol. 18, p. 12–13. illus.)

The article first appeared in the New York *Times* Supplement.

Hegemann, W., and E. Peets. The American Vitruvius: an architects' handbook of civic art. New York, Architectural Book Publishing Co., 1922. 298 p. illus., plans.

A folio picture-book.

Hénard, E. Études sur les transformations de Paris. Fascicule 2 — Les alignements brisés. La question des fortifications et le boulevard de Grande-Ceinture. Paris, Librairies-Imprimeries Réunies, 1903. p. 27–58. illus., plans.

Proposes a novel relation of buildings to street to produce a more open and gay appearance.

Parker, B. Horizontality and verticality in the architectural treatment of town planning schemes. (*In* Town Planning Institute, London, Papers and discussion, 1915–16; vol. 2, p. 133–144; with discussion, p. 145–150. illus.)

Robinson, C. M. Improvement of street façades; Architectural development; Architectural obligations. (*In* his Improvement of towns and cities, 1913, etc., p. 96–99, 186–215.)

Taut, B. Die Stadtkrone, mit Beiträgen von P. Scheerbart, E. Baron, A. Behne. Jena, E. Diederichs, 1919. 143 p. illus., plans.
On effects to be gained by composition of buildings in the city.
Reviewed in the *Survey*, Feb. 14, 1920.

Unwin, R. Of buildings, and how the variety of each must be dominated by the harmony of the whole. (*In* his Town planning, 1909, etc., p. 360–374. illus., plan.)

Watson, A. M. The comparative desirability of the formal or irregular treatment of street architecture in large cities. (Journal of Royal Institute of British Architects, Series 3, Feb. 9, 1901; vol. 8, p. 137–147.)
See also **6100**, for " regional " architecture.

Boyd, J. T., Jr. The New York zoning resolution and its influence upon design. (Architectural Record, Sept. 1920; vol. 48, p. 193–217. illus., plans.)

Embury, A., II. New York's new architecture: the effect of the zoning law on high buildings. (Architectural Forum, Oct. 1921; vol. 35, p. 119–124. illus., diagr.)

Hastings, T. The zoning regulations in New York. (American Architect, Oct. 13, 1920; vol. 118, p. 461–463. plan.)

Pond, I. K. Zoning and the architecture of high buildings. (Architectural Forum, Oct. 1921; vol. 35, p. 131–134. illus.)

Legislation

3460 Atterbury, G. Unwise building laws — written and unwritten. (*In* 8th National Conference on Housing, Housing problems in America, 1920, p. 87–94; with discussion, p. 260–264.)

Bonnier, L. Notice sur les architectures obligatoires dans la ville de Paris. (*In* Royal Institute of British Architects, Town planning conference, London, 1910, p. 208–231. illus., plan.)

Caparn, H. A. Public regulation of private buildings. (Landscape Architecture, Apr. 1918; vol. 8, p. 133–140.)
Address before the American Civic Association, St. Louis, 1917.

Emerson, W. The necessity for official control over architecture in our towns and cities. (Journal of Royal Institute of British Architects, 1900, Congress supplement to vol. 7, p. 1–14.)

Hasting, T. Utilitarianism or art? Paris building restrictions are vaunted by an American architect. (La France, Feb. 1921; vol. 5, p. 208–209, 224. illus.)

Killam, C. W. The relation of a state-wide building code to housing and town planning. (Architectural Quarterly of Harvard University, Dec. 1913; vol. 2, p. 29–35.)

National Board of Fire Underwriters. Building code recommended. 4th rev. ed. reprint, 1920. 326 p. illus., diagr.
Supplemented by work of Building Code Committee of U. S. Dept. of Commerce.

——. Dwelling houses: a code of suggestions for construction and fire protection. 1st ed., 1916. 115 p. illus., diagr.
Later suggestions in Code issued by U. S. Dept. of Commerce, 1923, in which National Board of Fire Underwirters cooperated.

Robinson, C. M. [Regulation of appearance of buildings.] (*In* his Improvement of towns and cities, 1913, etc., p. 63–70.)

Unwin, R. Of building bye-laws. (*In* his Town planning, 1909, etc., p. 386–403. plans.)

U. S. Dept. of Commerce. Advisory Committee on Building Codes. Recommended minimum requirements for small house construction. Washington, Govt. Printing Office, 1923. 108 p. illus., diagr.
Comment on report in preliminary form may be found in *Housing Betterment*, Nov. 1922.

Veiller, L. Model building codes and housing laws. (*In* 7th yearbook of City Managers' Association, 1921, p. 169–178.)
See also his Model Housing Law, **3644.**

See also **765,** Zoning legislation; **1600,** Zoning; **3475,** Building heights.

Arrangement. Height

3470 Atkinson, W. The orientation of buildings; or, Planning for sunlight. New York, John Wiley & Sons, 1912. 139 p. illus., plans.

Includes a chapter on the orientation of streets.

Edwards, A. T. Sunlight in streets. (Town Planning Review, Apr. 1920, Mar. 1921; vol. 8, p. 93–98, vol. 9, p. 27–36. illus., diagr.

Rey, A. A. La ville salubre de l'avenir: principes scientifiques d'orientation des voies publiques et des habitations. (*In* Congrès International et Exposition comparée des Villes, Ghent, 1913, Rapport, 1914, s. 1., p. 217–224.)

Also published (in English) *in* Town Planning Review, July 1915 *and in* Planning sunlight cities, by Swan and Tuttle *in* American Architect, Mar. 19, 1919.

Seymour, H. L. Sunlight engineering: its relation to housing and town planning. (Scientific American Monthly, Oct. 1920; vol. 2, p. 106–108.)

Abridgement of a paper in *Journal of the Royal Astronomical Society of Canada*, May 1920.

Swan, H. S., and G. W. Tuttle. Planning buildings for daylight. (Architectural Forum, Nov. 1918; vol. 29, p. 117–124. illus., diagr.)

—— Planning sunlight cities. (American Architect; Mar. 19, 1919; vol. 115, p. 427–441. illus., diagr.) *Also reprinted.*

Contains extensive tables. Article revised and enlarged from *American City* article, 1917.

3475 New York (City) Heights of Buildings Commission. Report to the Committee on the height, size and arrangement of buildings of the Board of Estimate and Apportionment of the City of New York, Dec. 23, 1913. 295 p. illus., plans.

Contains valuable appendices covering European practice.

The historic work on the subject.

Veiller, L. Buildings in relation to street and site. (*In* Proceedings of 3d National Conference on City Planning, 1911, p. 80–117; with discussion.)

3480 Akron, O., City Planning Commission. Limitation of height of buildings. Mar. 1922. 16 p.

An argument for low buildings.

Chicago Real Estate Board. Studies on building height limitations in large cities with special reference to conditions in Chicago. Proceedings of an investigation of building height limitations conducted under the auspices of the Zoning Committee of the Chicago Real Estate Board, compiled by C. M. Nichols. Chicago, The Chicago Real Estate Board Library, 1923. 299 p. illus., maps.

The most useful up-to-date study of the subject, fairly presenting all sides.

Holliday, A. C. Restrictions governing city development. I. Building heights for monumental and commercial structures. (Town Planning Review, July 1921; vol. 9, p. 77–98. illus.)

See also **1600,** Zoning.

3489 Adams, T. The "art atmosphere" of New York and the relation of the skyscraper to town planning. (Town Planning Review, July 1911; vol. 2, p. 139–146. illus.)

Allen, V. D. Regulating the height of buildings — disadvantages of skyscrapers. (Architect and Engineer, Oct. 1919; vol. 59, p. 70–72.)

Paper before the Cleveland Engineering Society.

Nimmons, G. C. The passing of the sky scraper. (Journal of American Institute of Architects, Nov. 1922; vol. 1, p. 356–361.)

Shows its economic disadvantages.

See also his testimony in Chicago Real Estate Board volume above.

Buildings for Special Uses

3560 Hurd, R. M. Types of buildings. (*In* his Principles of city land values, 1903, p. 97–121. illus.)

Public and Semi-Public Buildings Including Schools and Community Centers

3563 Bennett, E. H. Public buildings and quasi-public buildings. (*In* Nolen, J., *ed.*, City planning, 1916, p. 103–116. illus., plan.)

Day, F. M. The location of public buildings in parks and other open spaces. (*In* Proceedings of 3d National Conference on City Planning, 1911, p. 53–69; with discussion, p. 69–79.)

Ellis, C. Federal buildings as a basis for city beautifying. (American City, Oct. 1910; vol. 3, p. 187–192. illus.)

Flagg, E. Public buildings. (*In* Proceedings of 3d National Conference on City Planning, 1911, p. 42–52.)

Greeley, W. R. Memorial town halls in New England. (Architectural Forum, Sept. 1922; vol. 37, p. 125–130 + plates 41–49. illus., plans.)

Lewis, N. P. Public buildings and civic centers. (*In* his The planning of the modern city, 1916 and 1923, p. 149–174. illus., plans.)

Olmsted, F. L., Jr. Landscape in connection with public buildings in Washington. (American Architect, Jan. 19, 1901; vol. 71, p. 19–21.)

See also **3700,** Grouping of buildings.

3570 Burnap, G., and E. M. Parrett. School distribution and areas in the city plan. (Architectural Record, Nov. 1922; vol. 52, p. 371–385. illus., plans.)

Calvert, A. C. Public schools in the new war cities; the unit system provides for future growth. (American City, Nov. 1918, p. 360–362. plans.)

Cooper, F. I. Standardization of schoolhouse planning and construction. (American Architect, Aug. 21, 1918; vol. 141, p. 241–245. illus.)

Haynes, R., and S. P. Davies. School community centers [Cleveland]. (*In* their Public provision for recreation, 1920, p. 85–112. maps.)

Jackson, H. E. A community center: What it is and how to organize it. Washington, Govt. Printing Office, 1918. 52 p. (U. S. Bureau of Education, Bulletin, 1918, no. 11.) *Also published* in book form by Macmillan Co., New York.

On the theory of the use of the school building as the " community capitol."

Strayer, G. D. The school building program an important part of the city plan. (*In* Proceedings of 14th National Conference on City Planning, 1922, p. 46–53; with discussion, p. 53–64.) *Also reprinted*

The authoritative paper on the subject.

3575 Comey, A. C., Neighborhood centers. (*In* Nolen, J., *ed.*, City planning, 1916, p. 117–138. plans.)

Community Service. Community buildings for industrial towns. New York, Dec. 1921. 94 p. illus., plans.

Kimball, F. The social center: Part 1, Commercial and coöperative enterprises. — Part 2, Philanthropic enterprises. — Part 3, Civic enterprises. (Architectural Record, May, June, July, 1919; vol. 45, p. 417–440, 526–543; vol. 46, p. 29–46. illus., plans.)

May, C. C. A post-war construction program: the building bureau of the International Committee of the Y. M. C. A. (Architectural Record, Mar., Apr. 1919; vol. 45, p. 217–241, 325–342. illus., plans.)

The articles include neighborhood buildings suitable for industrial communities and boys' Y. M. C. A. buildings for cities.

Nason, W. C. Plans of rural community buildings. Washington, 1921. (U. S. Dept. of Agriculture, Farmers' Bulletin 1173. illus., plans.)

Supplemented by Bulletin 1192 on organization methods.

Whitney, A. L. Clubs, gymnasiums, and recreation grounds for employees. (U. S. Bureau of Labor Statistics, Monthly Review, Nov. 1917; vol. 5, p. 201–212.)

Wilson, S. The community house; an element in reconstruction. (American City, Dec. 1918; vol. 19, p. 467–470.)

See also several references to community buildings as war memorials under **1292**; and *see also* **4318,** Recreation center playgrounds.

3585 Foster, P. W. The modern hospital in the city plan. (The Modern Hospital, Mar. 1923; vol. 20, p. 205–209. illus., plans.)

3590 Pray, J. S. The treatment of church exteriors. (*In* Reports of papers presented at the third convention of the Religious Education Association in Boston, 1905, Dept. XVII, Bulletin no. 2, p. 407–411.)

A paper for the Department of religious art and music.

Wolff, F. Über die Stellung der Kirchen im Stadtplan. (Städtebau, Feb. 1904; vol. 1, p. 23–25. plans.)

Commercial and Industrial Buildings

3595 American Architect. Special numbers devoted to industrial buildings: — Mar. 22, 1916, Feb. 21, 1917, and Feb. 27, 1918; vol. 109, no. 2100, vol. 111, no. 2148, vol. 113, no. 2201.

Commercial and Industrial Buildings (cont.)

Brickbuilder, Sept. 1916; vol. 25, no. 9. Special number on manufacturing and industrial buildings, including illustrations of representative buildings of Eastern and Middle Western states.

Nimmons, G. C. Modern industrial plants —series of 8 articles. (Architectural Record, Nov. 1918–June 1919; vol. 44–45. illus., plans.)

3600 Boyd, J. T., Jr. The newer Fifth Avenue retail shop fronts, an American contribution to modern art. (Architectural Record, June 1921; vol. 49, p. 458–487. illus.)

Embury, A., II. Make your town attractive — distinctive shops. (House Beautiful, Aug. 1915; vol. 38, p. 76–78. illus.)

Harmonizing the shop with its environment: Kansas City "Country Club District" shops. (National Real Estate Journal, May 9, 1921; vol. 22, no. 10, p. 28–29. illus.)

Lasker, B. The shop in the suburb. (Garden Cities and Town Planning, Mar. 1913; vol. 3, p. 83–84.)

Wheatley, H. B. Old London shop fronts. (Country Life, London, Nov. 14, 1908; vol. 24, p. 653–656. illus.)

3615 Communal kitchens for new town planning; should the Government insist on their inclusion in the coming schemes? (Municipal Journal, London, Oct. 4, 1918; vol. 27, p. 993. Editorial note, p. 990.)

There are numerous other brief items on community kitchens in the file of the *Municipal Journal* for 1918.

Residences. Low-cost Houses

United States

3633 Architects' Small House Service Bureau. How to plan, finance and build your home. Published for the Southern Pine Association, New Orleans, by the Architects Small House Service Bureau of Minnesota, [1920]. 155 p. illus., plans.

——. Items from the annual report of the president. (Journal of American Institute of Architects, Mar. 1923; vol. 11, p. 117–118.)

Hamlin, W. A. Low-cost cottage construction in America; a study based on the housing collection in the Harvard Social Museum. Cambridge, 1917. 30 p. illus., plans. (Publications of the Department of Social Ethics in Harvard University, Number 7.)

Contains list of principal low-cost cottage housing enterprises in the United States.

Sherman, L. K. The cost of housing. A comparison of building costs in 1913 and 1919 based on a 6-room dwelling, following experience of United States Housing Corporation. (American Contractor, Jan. 17, 1920; vol. 41, no. 3, p. 31–35. illus., plans, tables.)

Southern Pine Association. Homes for workmen. A presentation of leading examples of industrial community development. New Orleans, The Association, [1919]. 250 p. illus., plans.

A useful compilation of articles (most of them reprints) by well-known writers on housing, including many typical house plans.

Successful examples of low-cost housing in England and the United States, including the new suburb of Flint, Mich., Gidea Park, England, and a "Check List" (by Davison) of American housing developments. (Architectural Review, Apr. 1917; vol. 5, no. 4, whole number. illus., plans.)

U. S. Bureau of Industrial Housing and Transportation. Standards recommended for permanent industrial housing developments. Washington, Govt. Printing Office, 1918. 15 p.

For full report of the United States Housing Corporation, containing house-plans, etc., *see* **1697.**

U. S. Dept. of Commerce. Advisory Committee on Building Code. Recommended minimum requirements for small building construction. *See* **3460.**

U. S. Shipping Board. Passenger Transportation and Housing Division. Types of housing for shipbuilders constructed as a war necessity under the direction of Passenger Transportation and Housing Division, Emergency Fleet Corporation. 1919. 125 plates. plans.

Veiller, L. The government's standards for war housing; Part 2 in series of articles: Industrial housing developments in America. (Architectural Record, Apr. 1918; vol. 43, p. 344–359.)

For additional references on types of houses erected by the United States for housing war workers, *see* **1697, U. S.,** and extensive bibliography in report of United States Housing Corporation, 1919.

Great Britain

Great Britain. Local Government Boards for England and Wales, and Scotland. Report of the Committee appointed by the President of the Local Government Board and the Secretary for Scotland to consider questions of building construction in connection with the provision of dwellings for the working classes in England, Wales, and Scotland and report upon methods of securing economy, and despatch in the provision of such dwellings. London, H. M. Stationery Office, 1918. 97 p. illus. plans. (Cd. 9191.)

Known as the "Tudor-Walters" report and deals with the town planning aspect as well as house construction. Mr. Raymond Unwin is largely responsible for the technical conclusions set forth. The report is called by the *Garden Cities and Town Planning Magazine* " the most important (British) Government publication on housing that has yet appeared." It was reviewed by Mr. H. R. Aldridge, Secretary of the National Housing and Town Planning Council in the *Municipal Journal*, London, Nov. 15 and 22, 1918.

Great Britain. Ministry of Health. Type plans and elevations of houses designed by the Ministry of Health in connection with state-aided housing schemes. London, H. M. Stationery Office, 1920. [45 plates.]

Thompson, F. L., and E. G. Allen. The town plan and the house; an opportunity for national economy. London, The Garden Cities and Town Planning Association [1916?]. 41 p. illus., plans, diagr.

Emphasizes the relation of the individual house to the whole scheme.

See also **1430** ff., **1697, 5350.**

3639 Byers, C. A. The community court, its practical and artistic possibilities. (Touchstone, Apr. 1918; vol. 3, p. 58–59, 93–95. illus.)

Inexpensive dwellings in California.

Dana, R. H., Jr. The group house — its advantages and possibilities: the mania for the detached house. (*In* 7th National Conference on Housing, Housing problems in America, 1918, p. 201–210; with discussion, p. 303–311.)

Also article in American Architect, Jan. 29, 1919; *and* Architectural Review, Feb. 1920, under same title.

3641 Boyd, J. T. Garden apartments in cities. (Architectural Record, July, Aug. 1920; vol. 48, p. 52–74, 121–135. illus., plans.)

Newman, B. J. Shall we encourage or discourage the apartment house? (*In* 5th National Conference on Housing, Housing problems in America, 1916, p. 153–166; with discussion, p. 328–348.)

3644 Ackerman, F. L. The Phelps-Stokes Fund tenement house competition. (Journal of American Institute of Architects, Mar. 1922; vol. 10, p. 76–82. plans.)

Hall, P. F. The menace of the three-decker. (*In* 5th National Conference on Housing, Housing problems in America, 1916, p. 133–152; with discussion, p. 321–327.)

Housing conditions. Program of architectural competition for the remodeling of a New York City tenement block under the auspices of Joint Legislative Committee on Housing and the Reconstruction Commission of the State of New York, Mar. 26, 1920. (*In* New York State Reconstruction Commission, Report on the housing situation, 1920, p. 77–94.)

Price, G. M. Tenement-house inspector. 2d rev. ed. New York, Chief Publishing Co., 1910. 287 p.

Standards of municipal inspection, useful for a housing survey.

Smith, H. A. Garden apartments for industrial workers. (American Architect, May 22, 1918; vol. 113, p. 686–689. illus., plans.)

Thomas, A. J. Is it advisable to remodel slum tenements? (Architectural Record, Nov. 1920; vol. 48, p. 417–426. illus., plans; with discussion by R. D. Kohn, p. 425–426.)

Veiller, L. A model housing law. 2d rev. ed. New York, Russell Sage Foundation, 1920. 430 p. illus., plans.

An important work. Refers mainly to tenement houses.

Minor Buildings

For park buildings, including bandstands, *see* **4055.**

3675 Adshead, S. D. Shelters. (Town Planning Review, July 1914; vol. 5, p. 139–140. illus., plan.)

3677 Armstrong, D. B. Public comfort stations: their economy and sanitation. (American City, Aug. 1914; vol. 11, p. 94–102. illus.)

Minor Buildings (cont.)

Cosgrove, J. J. A comfort station as a public utility. (*Ibid.*, Feb. 1917; vol. 16, p. 180–181, 183. illus., plan.)

Ford, F. L. Monograph on public comfort stations. (*In* 4th annual report of Hartford Commission on the City Plan, 1911, p. 13–76. illus.)

Gerhard, W. P. Public comfort stations. (American City, May 1916; vol. 14, p. 449–457. illus., plan, cross-sections.) *Also reprinted.*

Simons, G. W., Jr. More public convenience stations needed. (*Ibid.*, Nov. 1920; vol. 23, p. 471–475. illus.)

3685 Lowe, L. Service stations as an asset to the city. (American City, Aug. 1921; vol. 25, p. 151, 153. illus.)

Automobile service stations.

[Note on **Berkeley**, Calif. ordinance on location of gasoline and oil stations.] (Garden Cities and Town Planning, Dec. 1922; vol. 12, p. 198.)

Building Groups. Monumental Squares Civic Centers

3700. Brinckmann, A. E. Platz und Monument. Untersuchungen zur Geschichte und Ästhetik der Stadtbaukunst in neuerer Zeit. Berlin, E. Wasmuth, 1908. 175 p. illus., plans.

Brunner, A. W. The civic center. A paper before the American Civic Association. (National Municipal Review, Jan. 1923; vol. 12, p. 16–19.)

Cleveland, O., Board of Supervision for Public Buildings and Grounds. The group plan of the public buildings of the City of Cleveland. New York, 1903. [17 p.] illus., maps, diagr.

Report by Messrs. Burnham, Carrère, and Brunner, containing a number of illustrations of foreign examples.

Plan explained by Mr. Brunner *in* Proceedings of 8th National Conference on City Planning, 1916, p. 14–24.

Fisher, T. M. The Denver civic center. (Architectural Record, Mar. 1923; vol. 53, p. 189–201. illus., plan.)

Several articles on this civic center have appeared in *Municipal Facts*, published by the city of Denver.

Ford, F. L. *comp.* The grouping of public buildings. Hartford, Conn., 1904. 85 p. illus., plans. (Publications of the Municipal Art Society of Hartford, Conn., Bulletin no. 2.)

Githens, A. M. The group-plan. (Brickbuilder, July, Sept. 1906; vol. 15, p. 134–138, 179–182. illus., plans.)

On the theory of building grouping.

Gaudet, J. L'architecture et les voies publiques: places monumentales. (*In* his Éléments et théorie de l'architecture, Paris, Librarie de la Construction Moderne, 1909; vol. 4, p. 49–70. illus., plans.)

Hegemann, W., and **E. Peets.** The American Vitruvius, *see* **3455.**

Discusses grouping of buildings with historical examples.

Lewis, N. P. Public buildings and civic centers. (*In* his The planning of the modern city, 1916 and 1923, p. 149–174. illus., plans.)

See also his paper before National Conference on City Planning, **1627.**

Mawson, T. H. Civic centres. (*In* his Civic art, 1911, p. 97–111. illus., plans.)

Municipal art at its best — group at Springfield, Mass. (Parks and Recreation, Nov.–Dec. 1922; vol. 6, p. 115–116. illus.)

Price, M. Capitol Park, Harrisburg, Pa., A. W. Brunner, architect. (Architectural Record, Apr. 1923; vol. 53, p. 286–306. illus., plans.)

Reid, J., Jr. The San Francisco civic center. (Journal of American Institute of Architects, Aug. 1916; vol. 4, p. 334–336 + plate opp. 319. illus., plan.)

A more recent description appeared in *American City*, Dec. 1918.

Sitte, C. Der Städtebau nach seinen künstlerischen Grundsätzen. Ein Beitrag zur Lösung moderner Fragen der Architektur und monumentalen Plastik unter besonderer Beziehung auf Wien. *See* **250.**

Unwin, R. Of centres and enclosed places. (*In* his Town planning, 1909, etc., p. 175–236. illus., plans.)

Zueblin, C. Civic centers. (*In* his American municipal progress, 1916, p. 345–348.)

Contains bibliography.

Note the Park Commission Plan for Washington, 1902 (see list on p. 43), and further the Public Buildings Commission report, 1918 (65th Congress, 2d session, Senate Document no. 155.)

The reports on grouping of public buildings for St. Louis and Milwaukee (both 1919) should be especially noted, prepared in connection with comprehensive plans by municipal authorities.

Brainerd, H. B. Neighborhood center: group plan for Brooklyn Civic Center, Cleveland. (Parks and Recreation, July 1921; vol. 4, p. 297–299. plan.)

Based on report of Cleveland City Plan Commission, Oct. 1920.

Damon, G. A. How to handle "Four Corners"; architects offer ideas for neighborhood centers. (American City, Oct. 1914; vol. 11, p. 331–332. plans.)

Competition held under auspices of Throop College of Technology, Pasadena, Calif.

Greeley, W. R. Village centres of old New England. Concord and Newburyport present interesting types. (House Beautiful, Jan. 1920; vol. 47, p. 20–21. illus., maps.)

Muller, A. F. Community centers for small cities; economic and esthetic necessities of our modern communities. (American City, Town and County Edition, July 1915; vol. 13, p. 7–9. illus., plan.)

Waugh, F. A. Civic centers. (*In* his Rural improvement, 1914, p. 83–101. illus., plans.)

See also **1627, 3563.**

3722 Abercrombie, P. The university in relation to the planning of the city. (*In* Papers and discussions of the Town Planning Institute, London, 1922–23; vol. 9, p. 33–50; with discussion p. 51–54. illus., plans.)

Geddes, P. The proposed University for Central India. A reprint from *Town Planning towards City Development*, a report to the Durbar of Indore. Indore, 1918. 73 p.

The full report in 2 vols. was published by B. T. Batsford, London.

3724 Budden, L. B. The relation of exposition planning to civic design. (Town Planning Review, Jan. 1916; vol. 6, p. 153–162 + plates 34–44. illus., plans.)

The books and articles on the World's Columbian Exposition, Chicago, 1893, and the Panama-Pacific Exposition, San Francisco, 1915, should be used for views and descriptions of these two expositions, both especially significant to city planning.

BRIDGES

3740 Artistic value of water fronts and bridges in city building. (Fine Arts Journal, Nov. 1914; vol. 31, p. 524–534. illus.)

Bournon, F. La Seine, ses quais et ses ponts. (*In* his La voie publique et son décor, 1909, p. 77–92. illus.)

Bragdon, C. Abstract thoughts on concrete bridges. (Architectural Record, Jan. 1923; vol. 53, p. 3–10. illus.)

The relation of the structural and esthetic elements in bridge design.

Cambridge Bridge Commission. Report upon the construction of Cambridge Bridge. Boston, City Printing Dept., 1909. 363 p. illus., plans.

Delaware River Bridge Joint Commission (Pennsylvania and New Jersey). Report on the bridge over the Delaware River connecting Philadelphia, Pa., and Camden, N. J. Report of June 9, 1921. 25 p. + 19 plates of plans, cross-sections, etc.

Treats of the city planning considerations entering into its location and design.

Gaudet, J. Les ponts. (*In* his Éléments et théorie de l'architecture, 1909, vol. 4, p. 71–87. illus.)

Lindenthal, G. Some thoughts on long-span bridge design. (Engineering News-Record, Nov. 24, 1921; vol. 87, p. 861–864.)

By the builder of the Hell Gate bridge, with special reference to the proposals for the Delaware River bridge.

Symons, T. W., and F. L. Olmsted, Jr. The city and the Allegheny River bridges. Pittsburgh Civic Commission, 1910. 37 p. illus.

Also published in Pittsburgh main thoroughfares and the down-town district, p. 133–165. illus.

Tyrrell, H. G. Artistic bridge design. A systematic treatise on the design of modern bridges according to aesthetic principles. Chicago, M. C. Clark Publishing Co., 1912. 294 p. illus.

See also his *History of Bridge Engineering.*

—— Esthetic treatment of city bridges. (American City, Nov. 1913; vol. 9, p. 404–411. illus.)

Waddell, J. A. L. Esthetics in bridge design. (American City, Town and County Edition, Mar. 1918; vol. 18, p. 209–214. illus.)

Bridges (cont.)

Valuable references on bridges in relation to the city plan may frequently be found in local city plan reports. The discussion in the Pittsburgh and Portland (Ore.) major street plan reports (*see* list on p. 43 ff.) should be especially noted.

Minor Structures

See also **2290** ff., Street furniture.

3820 Adshead, S. D. The decoration and furnishing of the city, nos. I–XV. (Town Planning Review, Apr. 1911–Oct. 1914; vol. 2 — vol. 5. illus.)

These articles are entered under individual subjects in this list.

Baxter, S. Art in the street. (Century, Mar. 1906; N.S., vol. 49, p. 697–705. illus.)

Bournon, F. La voie publique et son décor; colonnes, tours, portes, obélisques, fontaines, statues, etc. Paris, H. Laurens, 1909. 232 p. illus. (Les richesses d'art de la ville de Paris.)

Mawson, T. H. Public monuments and street equipment. (*In* his Civic art, 1911, p. 125–144. illus., plans.)

Monuments, Statuary, and Fountains

3830 Abercrombie, P. Modern use of great monuments. (Congrès International et Exposition comparée des Villes, Ghent, 1913, Rapport, 1914, S.I., p. 225–227.)

Adshead, S. D. Monumental arches. (Town Planning Review, Apr. 1911; vol. 2, p. 17–21. illus.)

—— Monumental columns. (*Ibid.*, July 1911; vol. 2, p. 95–98. illus.)

—— Monumental memorials and town planning. (*In* Town Planning Institute, London, Papers and discussions, 1916–17; vol. 3, p. 67–85; with discussion p. 86–87. illus.)

Includes war memorials.

—— Obelisks. (Town Planning Review, Oct. 1911; vol. 2, p. 197–199.)

Bournon, F. Portes et arcs triomphaux. — Barrières. (*In* his La voie publique et son décor, 1909, p. 143–154. illus.)

Guadet, J. Monuments commémoratifs. (*In* his Éléments et théorie de l'architecture, 1909, vol. 4, p. 3–30. illus.)

New York (City) Art Commission. Catalogue of the works of art belonging to the City of New York. Vol. 2, prepared and issued by the Commission, 1920. 113 p. illus.

Contains numerous photographs of monuments.

U. S. National Commission of Fine Arts. Annual reports. 1911 to date.

Weaver, L. Memorials & monuments, old and new: two hundred subjects chosen from seven centuries. London, "Country Life"; New York, C. Scribner's Sons, 1915. 479 p. illus.

Includes outdoor memorials.

See also **1292,** War memorials.

3840 Adams, H. The relation of sculpture to parks and buildings. (Journal of American Institute of Architects, Apr. 1913; vol. 1, p. 161–165.)

Condensed in American City, Mar. 1913; vol. 8, p. 287–288.

Adshead, S. D. Statuary. (Town Planning Review, Oct. 1912; vol. 3, p. 171–175. illus.)

—— Statuary: the single figure and the group. (*Ibid.*, Jan. 1913; vol. 3, p. 240–243. illus.)

—— Equestrian statues. (*Ibid.*, Apr. 1913; vol. 4, p. 3–6. illus.)

—— Allegorical sculpture. (*Ibid.*, July 1913; vol. 4, p. 95–97. illus.)

Bitter, K. Municipal sculpture. (Municipal Affairs, Mar. 1898; vol. 2, p. 73–97. illus.)

Bush-Brown, H. K. Sculpture in parks. (Park International, July 1920; vol. 1, p. 65–66.)

Caparn, H. A. Statuary in informal settings. (Landscape Architecture, Oct. 1910; vol. 1, p. 22–30. illus.)

New York (City) Dept. of Public Parks. Report of the Committee on the subject of Statues on Central Park. (*In* its Document 46, for the year ending Apr. 30, 1873, p. 3–10.)

States the principles for the placing of statuary in parks.

Robinson, C. M. Adorning with fountains and sculpture. (*In* his Modern civic art, 1918, etc., 166–183. illus.)

Robinson, C. M. The function and placing of sculpture. (*In* his Improvement of towns and cities, 1913, etc., p. 216–236.)

Ruckstuhl, F. W. The proper functions of open-air statuary. (House and Garden, Oct. 1902; vol. 2, p. 481–494. illus.)

3845 Adshead, S. D. Fountains. (Town Planning Review, Apr., July 1912; vol. 3, p. 19–22, 114–117. illus.)

Borrmann, R. Monumentale Wasserkunstanlagen im Städtebau des Altertums und der neueren Zeit. Berlin, W. Ernst & Sohn, 1910. 28 p. illus., plans. (Städtebauliche Vorträge, Bd. 3, Heft 5.)

Eyre, W. Memorials in parks — Fountains. (Park International, May 1921; vol. 2, p. 244–247. illus.)

Swift, S. Ornamental movement of water in city streets. (House and Garden, Apr., May, Sept. 1902; vol. 2, p. 150–162, 205–213, 417–428. illus.)

3855 Adshead, S. D. Clock monuments. (Town Planning Review, Jan. 1912; vol. 2, p. 303–304. illus.)

3857 Walker, C. H. Memorials in parks — Flagpoles. (Park International, Jan. 1921; vol. 2, p. 53–56. illus.)

3860 Adshead, S. D. Tall lighting standards, masts and car poles. (Town Planning Review, Apr. 1914; vol. 5, p. 47–48. illus.)

Billboards

3880 Caparn, H. A. A billboard catechism. (Landscape Architecture, Jan. 1919; vol. 9, p. 76–78.)

Crawford, A. W. Important advances toward eradicating the billboard nuisance. 32 p. (American Civic Association, Series II, no. 13, Mar. 20, 1919. — 2d rev. ed., Mar. 15, 1920.)

The American Civic Association is compiling (1923) up-to-date information on the billboard situation.

—— Removing posters in Philadelphia and suburbs; billboards not tolerated by Garden Club of America; Billboards and zoning in the new Pennsylvania constitution. (Civic Comment, American Civic Association, Sept. 1920; no. 5, p. 14–15.)

Civic League of St. Louis. Billboard advertising in St. Louis. Report of the Signs and Billboards Committee, St. Louis, 1910. 40 p. illus.

Fosdick, R. B. Big billboards in big cities; address before American Civic Association, 1912. (American City, Dec. 1912; vol. 7, p. 511–517. illus.)

Based on his report to Mayor of New York, 1912.

McBain, H. L. Expanding the police power — smoke and billboards. (*In* his American city progress and the law, 1918, p. 58–91.)

Maltbie, M. R. Advertising signs and art. (Municipal Affairs, Sept. 1901; vol. 5, p. 738–753.)

Massachusetts. Dept. of Public Works. Division of Highways. Rules for the regulation of advertising signs and devices within the public view. Boston, Dec. 30, 1920. 4 p.

Massachusetts. Laws. Special report relative to the regulation of billboard and other advertising devices on public ways, in public places and on private property within public view, Feb. 1920. 34 p. Boston, State Printers, 1920. (Massachusetts General Court, 1920, House Document 1315.)

Millard, E. L. Billboard control to date. (National Municipal Review, Dec. 1922; vol. 11, p. 409–411.)

—— What chambers of commerce and realtors can do to help abate the billboard nuisance. (American City, March 1920; vol. 22, p. 276–278.)

Municipal Art Society of New York. The bill-board blight, what to do about it. New York, 1922. 22 p. illus. (Bulletin no. 22, Mar. 1922.)

Summarized in American City, May 1922; vol. 26, p. 463–465. illus.

National Highways Association. Council of National Advisers. Division of Municipal Art. The bill-board nuisance in New York City. [Washington, Mar. 1916.] 8 p. illus. (Pamphlet no. 1.)

New York (City) Mayor's Billboard Advertising Commission. Report, Aug. 1, 1913. 151 p. illus.

Second printing 1915.

Olmsted, F. L., Jr. Public advertising. Boston, Rockwell & Churchill Press, 1900. 11 p. (*In* Proceedings of American Park and Outdoor Art Association, vol. 4, part 1.)

Robinson, C. M. The advertisement problem. (*In* his Improvement of towns and cities, 1913, etc., p. 76–93.)

Billboards (cont.)

Simpson, J. Billboard regulation: court decisions in various states as to extent of municipality's power to regulate erection and maintenance of billboards on private property. (Municipal Journal, New York, Dec. 23, 1915; vol. 39, p. 949–951.)

Springfield, Mass., City Planning Commission. A report on billboard advertising in Springfield. [1915. 47 p.] illus.

Williams, F. B. Outdoor advertising. (*In* his Law of city planning and zoning, 1922, p. 407–422.)

PUBLIC OPEN SPACES

(Public and Quasi-public, other than for Traffic)

4000 American Civic Association. What everybody should know about parks — The American Civic Association's park primer. [Washington, 1922. 4 p.]

Definitions of types of parks.

American Academy of Political and Social Science. Public recreation facilities. Philadelphia, 1910. 266 p. illus., plans. (Annals, vol. 35, no. 2.)

Of historic interest.

American Association of Park Superintendents. Bulletin. *Superseded by* The bimonthly *Parks and Recreation*, q. v. The name of the Association has been changed to American Institute of Park Executives.

American Park and Outdoor Art Association. [Addresses and proceedings.] 1897–1904; vols. 1–7. illus.

Contains papers and addresses on parks by leading advocates. Of historic importance.

The files of *Garden and Forest*, weekly, 1888–1897, contain many earlier articles on parks and public open spaces.

Eliot, C. W. Charles Eliot, landscape architect. Boston, Houghton, Mifflin and Co., 1902. 770 p. illus., plans.

Chapters 17–19, 21, 23–28, 30–32, 34–39, relate especially to public open spaces.

Hubbard, H. V., *see* **4040.**

Olmsted, F. L., Jr. The landscape treatment of parks. (*In* Bailey's Standard cyclopedia of horticulture, 1916, vol. 4, p. 1801–1807. plans and table of statistics.)

Brief definitions of the types of public parks.

Olmsted, F. L., Jr. Parks as war memorials. *See* **1292.**

Parks and Recreation. Official publication of American Institute of Park Executives and American Park Society. Minot, N. D.; vol. 1, no. 1, Oct. 1917, to date. illus. *Bi-monthly.*

Robinson, C. M. Open spaces; Parkways; Distribution and location of parks; Park development. (*In* his Modern civic art, 1918, etc., p. 287–354. illus.)

—— Parks and drives; "Squares" and playgrounds. (*In* his Improvement of towns and cities, 1913, etc., p. 152–185.)

U. S. Bureau of the Census. General statistics of cities, 1916: including statistics of parks, playgrounds, museums and art galleries, zoölogical collections, music and entertainments, swimming pools and bathing beaches, and other features of the recreation service. Washington, Govt. Printing Office, 1917. 88 p. diagr., maps.

Chubb, L. W. Town planning schemes and open spaces. (*In* Town Planning Institute, London, Papers and discussions, 1915–16; vol. 2, p. 71–82; with discussion, p. 83–90.)

Holmes, B. Open spaces, gardens and recreation grounds. (*In* Royal Institute of British Architects, Town planning conference, London, 1910, p. 478–493; with discussion, p. 493–498.)

History of public park movement in England.

Mawson, T. H. Civic art; studies in town planning, parks, boulevards, and open spaces. London, B. T. Batsford, 1911. 375 p. illus., plans.

Alphand, J. C. A. Les promenades de Paris. Histoire — description des embellissements — dépenses de création et d'entretien des Bois de Boulogne et de Vincennes, Champs-Élysées — parcs — squares — boulevards — places plantées. Étude sur l'art des jardins et arboretum. Paris, J. Rothschild, 1867–1873. 246 p. text with illus. and atlas.

The monumental work on the subject.

Koch, H. Gartenkunst im Städtebau. Berlin, E. Wasmuth, 1914. 256 p. illus., plans. — 2d rev. ed., 1921. 318 p.

A summary of recent park planning by this author appeared in *Architectural Record*, May 1922.

4016 Buchholz, W. Acquirement of Kansas City park and boulevard system and its effect on real estate values. (*In* Proceedings of 9th National Conference on City Planning, 1917, p. 96–105.)

Crawford, A. W. Parks as value stabilizers and value creators. (*In* Cleveland Metropolitan Park District, Annual report, 1920, p. 9–19. illus.)

Also in Park International, Mar. 1921; vol. 2, p. 165–167.

Minneapolis cited as example.

Harmon, W. E. Influence of playgrounds and small parks on suburban development. (Amer. City, June 1911; vol. 4, p. 268–270.)

Madison (Wis.) Park and Pleasure Drive Association. Directors. Madison parks as a municipal investment. Report of a citizens' committee, Mar. 11, 1909. 20 p.

Nolen, J. Some examples of the influence of public parks in increasing city land values. (*In* his General plan of a park and playground system for New London, Conn., 1913, p. 28–41.)

Also in Landscape Architecture, July 1913; vol. 3, p. 166–175.

PARKS AND PARK SYSTEMS

4040 Bartholomew, H. Zoning in the location of public parks. (Park International, July 1920; vol. 1, p. 56–59. illus.)

Boston. Parkman Fund Committee. Report of the special committee appointed by Mayor Peters on the expenditure of the Parkman Fund income. Boston, City Printer, 1921. 73 p. plates. (Document 103, 1921.)

Analyses the essential elements of a park system. The committee included several members of the American Society of Landscape Architects and American City Planning Institute.

Hubbard, H. V. Parks and playgrounds, their requirements and distribution as elements in the city plan. (*In* Proceedings of 14th National Conference on City Planning, 1922, p. 1–33; with discussion by Messrs. Hanmer, Leland, and others, p. 33–45.)

Paper also in Landscape Architecture, July 1922; vol. 12, p. 240–264. diagr.

The authoritative up-to-date summary of the subject.

Kessler, G. E. Kansas City park system and its effect on the city plan. (*In* Proceedings of 9th National Conference on City Planning, 1917, p. 106–116.)

Manning, W. H. Park systems and recreation grounds. (*In* Proceedings of 8th National Conference on City Planning, 1916, p. 242–248.)

Mawson, T. H. Park systems. (*In* his Civic art, 1911, p. 79–94. illus., plans.)

Nolen, J. Park systems. (*In* his City planning, 1916, p. 159–180. plans.)

Olmsted, F. L., Sr. Parks, parkways and pleasure grounds. (Engineering Magazine, 1895; vol. 9, p. 253–260.)

Also in Garden and Forest, May 15, 22, 1895; vol. 8, p. 192, 202–203; and *reprinted in* Charles Eliot, landscape architect, 1902, p. 441–451.

Olmsted, F. L., Jr. The metropolitan park system of Boston. (*In* Transactions of American Society of Landsdape Architects, 1899–1908, p. 56–65.)

Olmsted, J. C. The Boston park system. (*In Ibid.*, p. 42–55. map.)

Olmsted Brothers. [Organization of a park system.] (*In* their Report on a proposed park system for Dayton, O., 1911, p. 6–12.)

Parker, G. A. Report of Committee on park development and maintenance. (*In* Proceedings of American Society of Municipal Improvements, 1914, p. 216–227.)

The basis for a park system.

Philadelphia Allied Organizations. The existing and proposed outer park systems of American cities. Report, written by A. W. Crawford and F. M. Day. [Harrisburg, Pa., Mt. Pleasant Press, 1905.] 61 p. plans.

Of historic interest.

Sheridan, L. V. American park systems. (*In* Proceedings of American Society of Municipal Improvements, 1916, p. 162–180.)

U. S. Bureau of the Census, *see* **4000.**

A number of park system reports for American cities will be found in the lists in *Municipal Accomplishment* (*see* **0**) by such landscape architects as Olmsted Brothers (note especially Baltimore and Washington), G. E. Kessler, W. H. Manning and John Nolen. The annual and special park reports for Minneapolis, Wilmington (Del.), Louisville, Essex County and Hudson County, N. J., and for Chicago South and West Park Commissions should also be especially consulted. The Denver outer park system is described in *Municipal Facts*, the official city newspaper.

Legislation and Administration

4050 Hanmer, L. F., and A. H. Brunner. Recreation legislation. rev. ed. New York, Russell Sage Foundation, Dept. of Recreation, Oct. 1915. 99 p.

Includes laws creating administrative agencies. Revision in progress.

4052 Olmsted, F. L., Jr. Park department organization. (Landscape Architecture, July 1914; vol. 4, p. 150–166.)

Park Equipment

4055 Burnap, G. Seats in public parks; Park utilities. (*In* his Parks, their design, equipment and use, 1916, p. 252–277, p. 296–313. illus.)

Elliott, E. L. Park lighting. (American City, Apr. 1911; vol. 4, p. 169–172. illus.)

Farrier, E. For wholesome recreation: public parks and Community Service cooperate for public benefit. (Parks and Recreation, Nov.–Dec. 1921; vol. 5, p. 130–135. illus.)

On park equipment to promote popular use.

Mawson, T. H. The adornment and equipment of public parks. (*In* his Civic art, 1911, p. 185–206. illus., plans.)

Park furniture. (Park International, July 1920; vol. 1, p. 83–86. plates, plans.)

Peaslee, H. W. Park architecture. (Park International, 1920–1921; vol. 1–2. illus.)

1. Bathing establishments, July 1920; vol. 1, p. 25–34.
2. Field houses, Sept., p. 128–137.
3. Lodges, Nov., p. 225–233.
4. Refectories, Jan. 1922; vol. 2, p. 23–33.
5. Greenhouses, Mar., p. 135–147.
6. Boathouses, May, p. 231–237.

Waugh, F. A. Outdoor theaters: the design, construction and use of open-air auditoriums. Boston, R. G. Badger Co., 1917. 151 p. illus.

Contains bibliography.

Welch, W. A. Park transportation. (Park International, May 1921; vol. 2, p. 225–230. illus.)

For articles on statuary in parks, *see* **3840.**

4057 American Association of Park Superintendents. Concessions and privileges in public parks; a summary of methods of operation in various American cities with comments by members. Seattle, 1915. 32 p. (Bulletin no. 12.)

4058 Lyle, W. T. Parks and park engineering. New York, John Wiley & Sons, 1916. 130 p. illus., map.

LANDSCAPE PARKS AND RESERVATIONS

4100 Boston. Parkman Fund Committee report, *see* **4000.**

Eliot, C., *see* **4000.**

Jensen, L. P. Value of parks to posterity. Popular education and individual training must supplement conservation. (Parks and Recreation, Sept.–Oct. 1921; vol. 5, no. 1, p. 21–25.)

Address at annual convention of American Association of Park Superintendents urging education of public to arrest destruction of native vegetation in landscape parks.

Olmsted, F. L., Sr. Public parks: being two papers read before the American Social Science Association in 1870 and 1880, entitled, respectively, Public parks and the enlargement of towns, and, A consideration of the justifying value of a public park. Brookline, [Privately printed], 1902. 114 p.

The two papers were originally printed in 1870 and 1881.

See further especially reports on Central Park, N. Y., Prospect Park, Brooklyn, and Franklin Park, Boston. The Franklin Park report by F. L. Olmsted, Sr., is the historic exposition of the design of a large landscape park. The forthcoming Vol. 2 of the Olmsted Papers (Vol. 1, Early Years, in series *Forty Years of Landscape Architecture*, New York, G. P. Putnam's Sons, 1922) is a monograph on the design and development of Central Park (Olmsted & Vaux).

Olmsted, J. C. The true purpose of a large public park. (*In* 1st Report of American Park and Outdoor Art Association, 1897, p. 11–17.)

Condensed in Garden and Forest, June 2, 1897; vol. 10, p. 212–213.

For the preservation of landscape parks from encroachment of public buildings, *see also* **3563, Day.**

For county and regional reservations, e.g. Palisades Interstate Park, *see* **6100.**

See further publications of American Scenic and Historic Preservation Society, National Trust for Places of Historic Interest or Natural Beauty (London), and similar societies in other countries. (*Cf.* **1276.**)

4127 Hubbard, H. V., and T. Kimball. Landscape parks and reservations. (*In* their Introduction to the study of landscape design, 1917, p. 295–323. illus., plan.)

Design considerations.

Lay, C. D. Park design and the preservation of the park idea. (Landscape Architecture, Jan. 1921; vol. 11, p. 76–83.)

Olmsted, F. L., Jr. Playgrounds in parks from the designer's standpoint. (*In* Proceedings of American Association of Park Superintendents, 1916, p. 30–32; with discussion, p. 32–49.)

Also published in: Park and Cemetery, Oct. 1916; vol. 26, p. 243–244; *in* American City, Nov. 1916; vol. 15, p. 506–508; *and in* Landscape Architecture, Apr. 1917; vol. 3, p. 122–127.

Parsons, S. Public parks. (*In* his The art of landscape architecture, New York, G. P. Putnam's Sons, 1915, p. 264–304. illus.)

Shurtleff, A. A. The effect of automobiles on the design of parks. (Landscape Architecture, Apr. 1921; vol. 11, p. 111–114. plans.)

See also Eliot article, **2212.**

FOREST AND WATER-SUPPLY RESERVATIONS

4160 Municipal forests in the United States: areas of watershed, park and strictly forest tracts listed. (American City, April 1921; vol. 24, p. 352–354.)

Arranged by states and towns, with indication of type of area.

4162 Carhart, A. H. Where city and nation unite to act as summer hosts: municipal camps in national forests. (Playground, Sept. 1920; vol. 14, p. 342–346.)

From American City, May 1920; vol. 22, p. 499–501.

Notable example of recreational use of forests.

Hubbard, G. A. The municipal forest in Fitchburg, Mass. (American City, Feb. 1921; vol. 24, p. 121–124. illus.)

See also forthcoming article on this subject in *American Forestry*, summer, 1923.

Reinburg, P. The county forest that surrounds Chicago. (American City, Aug. 1920; vol. 23, p. 143–144. illus.)

See further the reports of the Board of Forest Preserve Commissioners of Cook County, Ill.

Reynolds, H. A. Why Massachusetts needs town forests. Boston, Massachusetts Forestry Association, Oct. 1921. 16 p. illus. (Bulletin 132.)

A summary to that date, widely reprinted, by the secretary of the Association. Revision in progress. Recent news summarized by the same author in *American Forestry*, summer, 1923. Massachusetts has been the center of the town forest movement.

Simmons, J. R. Community forests. (*In* New York State Conservation Commission, Reforestation Conference, Albany, Nov. 1922, published 1923, p. 35–39. illus.)

By the Secretary-Forester, New York State Forestry Association, now promoting community forests for the state.

Walpole, Mass., Town Planning Committee. Town forests. (*In* its Town planning for small communities, 1917, p. 101–124. illus.)

4165 Ayres, P. W. Reforestation on water-sheds. (Journal of the New England Waterworks Association, June 1923. *In press.*)

Saville, T. The relation of water to forestry. (American City, Sept. 1920; vol. 23, p. 287–292. illus.)

Abridged in Public Works, vol. 49, p. 188–191.

4168 American Waterworks Association. Report of city planning committee. (American Waterworks Association Journal, Mar. 1918; vol. 5, p. 1–9. illus.)

On the development of land about pumping stations and reservoirs.

Olmsted, F. L., Jr. The relation of reservoirs to parks. Boston, Rockwell & Churchill Press, 1899. 32 p. illus., plans. (American Park and Outdoor Art Association, Paper 32.)

Also in Engineering Record, 1900; vol. 41, p. 173–177.

Saville, C. M. Reservoirs. (*In* Nolen, J., *ed.*, City planning, 1916, p. 187–199. illus.)

Sproles, A. J. Esthetics and the water department. (American City, Oct. 1916; vol. 15; p. 438–439. illus.)

SMALL PARKS. COMMONS

4250 Burnap, G. Parks, their design, equipment and use. Philadelphia, J. B. Lippincott Co., 1916. 328 p. illus.

Refers primarily to small intown parks. Note especially the chapter on "Passing-through" parks. Some of the chapters appeared in advance in *American City*, 1915.

Mawson, T. H. [Gardens and open spaces.] (*In* his Civic art, 1911, p. 111–122. illus., plans.)

Greeley, W. R. Village centers in old New England. (House Beautiful, May 1919; vol. 45, p. 280–282. illus., plan.)

Lexington Common.

Waugh, F. A. Civic centers — Commons. (*In* his Rural improvement, 1914, p. 83–101. illus., plans.)

—— The town common. (American City, Town and County Edition, Aug. 1916; vol. 15, p. 128–132. illus., plans.)

—— Town common. (*In* his Landscape gardening, New York, John Wiley & Sons, 1922, p. 182–192. plans.)

SQUARES

General

4255 Baxter, S. Public squares in city and village. (Century Magazine, Apr. 1906; N.S. vol. 49, p. 860–870. illus.)

Genzmer, F. Die Ausstattung von Strassen und Plätzen. Berlin, W. Ernst & Sohn, 1910. 59 p. illus., plans. (Städtebauliche Vorträge, Bd. 3, Heft 2.)

Hegemann, W., and E. Peets. The American Vitruvius. *See* **3455.**

Hénard, R. Les jardins et les squares. Paris, H. Laurens, 1911. 276 p. illus., plans. (Les richesses d'art de la ville de Paris.)

Newton, T. M. Public squares. (American Architect, Feb. 3, 10, 24, Mar. 3, 24, 1894; vol. 43, p. 52–54, 64–67, 87–89, 101–104, 137–138. plans.)

The **planning** of cities and public spaces. I, by J. W. Simpson. illus. II, by A. B. Pite. (Journal of Royal Institute of British Architects, Series 3, Apr. 8, 1905; vol. 12, p. 341–371; with discussion.)

Mr. Simpson's paper also in House and Garden, June 1906; vol. 9, p. 281–289. illus., plans.

Robinson, C. M. The treatment of city squares. (House and Garden, June, July, Aug. 1902; vol. 2, p. 252–261, 300–307, 377–386. illus., plans.)

Sitte, C. Der Städtebau. *See* **3700.**

Triggs, H. I. The planning of squares and open spaces. (*In* his Town planning, 1909, p. 271–327. illus., plans.)

Same matter in paper reprinted from Journal of Royal Institute of British Architects, Series 3, Nov. 20, 1909; vol. 17, p. 41–70.

Unwin, R. Of centres and enclosed places. (*In* his Town planning, 1909, etc., p. 175–234. illus., plans.)

See also **2197, 2234, 2238, 2486, 3700, 4250,** for special types of squares.

BOTANICAL GARDENS, ZOOS, AND FAIR GROUNDS

4265 Gager, C. S. Botanic garden. (*In* Bailey's Standard cyclopedia of horticulture, vol. 1, 1914, p. 526–532. illus., plan.)

National Botanic Garden. Acquirement of Mount Hamilton tract will assure garden worthy of name. (Parks and Recreation, Jan. 1921; vol. 4, p. 95–100. illus.)

Park aspect of New York botanical gardens. (Park and Cemetery, Dec. 1916; vol. 26, p. 294–295. illus.)

4270 Failles, C. A. The value of a zoo in a city park. (Parks and Recreation, Apr. 1918; vol. 1, no. 3, p. 3–6. illus.)

Merkel, H. W. Animals in public parks. (*Ibid.*, July 1920; vol. 3, no. 4, p. 5–11. illus.)

—— The New York idea of a zoölogical park. (American City, Oct. 1913; vol. 9, p. 298–302. illus.)

Peaslee, H. W. Zoölogical gardens. (Architectural Record, Apr. 1922; vol. 51, p. 360–370. illus.)

Shurtleff, A. A. Boston zoölogical park. (Landscape Architecture, Oct. 1912; vol. 3, p. 1–14. illus., plans.)

In Franklin Park.

Zoölogical parks, 1916. (*In* U. S. Bureau of the Census, General statistics of cities, 1916, Table 14, p. 80–81.)

Text discussion of this table, p. 34.

Information on the zoos of Philadelphia, Detroit, Chicago (Forest Preserve, Cook County), Madison, Milwaukee, St. Louis, Kansas City, Denver, Seattle, etc., may be found in park reports and in the files of *Parks*

and Recreation, which has a regular department conducted by H. W. Merkel, devoted to the subject of zoölogical exhibits.

4295 Pearse, Robinson, and Sprague. Your fair and its possibilities; a few thoughts for the consideration of fair officials. [Des Moines, 1920.] 16 p. illus., plans.

Pennsylvania State Fair Commission. Report and plans for an agricultural fair and industrial exposition for the Commonwealth of Pennsylvania. Prepared according to the provisions of the Act of the General Assembly, no. 443, 1921. 16 p. illus., plans.

Pearse, Robinson and Sprague, designers.

Ramsey, L. W. The county and district fair. (Landscape Architecture, July 1920; vol. 10, p. 201–205. plans.)

PLAYGROUNDS

4300 Curtis, H. S. The practical conduct of play. New York, Macmillan Co., 1915. 330 p. illus.

Chapter 3–7 on construction and equipment of playgrounds. Playground planting discussed by the author in *American City*, Feb. 1915.

Dawson, J. F. Conflicting opinions as to control body of public playgrounds. (Parks and Recreation, Jan.–Feb. 1922; vol. 5, p. 312–313.)

De Groot, E. B. Recreation facilities in public parks — providing facilities for different kinds of playground interests. (American City, Jan. 1914; vol. 10, p. 9–15. illus.)

Address before American Association of Park Superintendents giving experience of Chicago.

Farrier, E. Utilizing the city's waste spaces for recreation. (Park International, May 1921; vol. 2, p. 248–253. illus.)

Use of vacant lots, back yards, old cemeteries, docks, etc.

Haynes, R. How much playground space does a city need? (American City, Mar. 1917; vol. 16, p. 241–247. illus.)

Hubbard, H. V. The size and distribution of playgrounds and similar recreation facilities in American cities. (*In* Proceedings of 6th National Conference on City Planning, 1914, p. 265–287; with discussion, p. 287–304.) *Also reprinted* and condensed in several magazines.

Superseded by Mr. Hubbard's 1922 paper on Parks and Playgrounds, *see* **4040.**

Lay, C. D. Playground design. (Landscape Architecture, Jan. 1912; vol. 2, p. 63–65. plans.)

Lee, J. Play and playgrounds. [32 p.] illus. (American Civic Association. Dept. of Public Recreation, Dept. leaflet no. 11, July 1906.) *Also reprinted.*

Olmsted, F. L., Jr. Playgrounds in parks from the designer's standpoint. *See* **4127.**

The **Playground.** New York, The Playground and Recreation Association of America; vol. 1, Apr. 1907, to date. illus. *Monthly.*

The files contain articles on all phases of playground management and equipment. Current volumes contain reports of the Association.

Playground and Recreation Association of America. Proceedings of 1st to 3d Annual Playground Congress, Playground Association of America, 1907–1909. 3 vols. illus., plans. Proceedings continued in *The Playground*, including "yearbook" number, containing compiled statistics. (Dec. 1, 1921 to Nov. 30, 1922, in *Playground*, Mar. 1923.)

—— Layout and equipment of playgrounds. New York, The Association, 1921. 60 p. plans.

The up-to-date authoritative publication.

Robinson, C. M. Landscape gardening for playgrounds. (*In* Proceedings of the 2d Annual Playground Congress, 1908, p. 64–71. illus.) *Also reprinted.*

Citizens Committee on City Plan of Pittsburgh. Pittsburgh playgrounds, being the first portion of a report upon the recreation system: a part of the Pittsburgh Plan; prepared by the Citizens Committee on City Plan of Pittsburgh. Pittsburgh, 1920. 40 p. illus., plans. Also popular edition.

A notable example. *See also* Cleveland Recreation Survey, **1495 (Haynes).**

4315 American Park Institute. Report of the committee on playgrounds and recreation. (Parks and Recreation, Sept.–Oct. 1921; vol. 5, p. 42–43.)

Includes questionnaire (and results) concerning value of certain playground apparatus and golf courses.

Regarding apparatus. (Playground, Dec. 1917; vol. 11, p. 463–465.)

Result of study of playgrounds in 26 cities.

Recreation Center and School Playgrounds

4318 Chicago. South Park Commissioners. Annual reports, 1875 to date.

The Chicago South Parks are the prototypes of the recreation center playground in America. Accounts by J. R. Richards, in *Playground*, June 1916, and *Park and Cemetery*, Nov. 1916.

—— **West Chicago Park Commissioners.** Recreation centers, playgrounds and swimming pools of the West Chicago Park Commissioners. Issued on the occasion of the 50th anniversary of the organization of the West Park Board. Chicago, 1919. 80 p. illus., plans.

Contains a statement of the facilities of each of the five fully equipped recreation centers in the West Chicago park system.

Curtis, H. S. The neighborhood center; the proper relationship of the public school to playgrounds and small parks. (American City, July, Aug. 1912; vol. 7, p. 14–17, 133–137. illus.)

See also **3575,** Recreation center buildings.

4319 Curtis, H. S. The reorganized school playground. 23 p. (U. S. Bureau of Education, Bulletin, 1912, no. 16, whole no. 488.)

A revised ed. with illus. is whole no. 550 (1913, no. 40.)

—— The school playground of American cities; Play at the rural school; The playgrounds of Gary . (*In* his Education through play, New York, Macmillan Co., 1915, p. 113–178. illus.)

Gregg, J. W. The landscape development of school grounds. (American City, Jan. 1916; vol. 14, p. 36–38.)

As playgrounds, as well as for effect.

Nash, J. B. Recreation under public supervision. 4 p. (Bulletin of Oakland, Calif., Recreation Department, 1919. illus.)

The National Conference on City Planning considers Oakland school playgrounds of especial interest.

Ramsdell, C. H. School ground planning as a community asset. *Reprint from* American School Board Journal, Apr. 1920; 8 p. illus., plans.

Russell Sage Foundation. Dept. of Recreation. Making municipal funds go further through a co-ordination of school and park developments. New York, 1920. *folder.* plans.

Special Sports

4347 Gerhard, W. P. Public bath houses and swimming pools. (American City, Nov. 1914; vol. 11, p. 357–367. illus., plan.) *Also reprinted* as American City Pamphlet no. 120.

Hinman, J. J., Jr. The swimming pool. *Reprinted from* American Physical Education Review, Dec. 1920; vol. 25. 17 p.

Open air swimming pools in Wisconsin cities. (American City, July 1917; vol. 17, p. 11–13. illus.)

4360 Smith, H. D. Report on trip to Princeton, College of City of New York, Yale, and Harvard for the purpose of inspecting the stadia at those universities. (American Architect, July 21–Aug. 25, 1920; vol. 118, p. 94–96, 124–126, 160–164, 221–224, 260–262. illus.)

Stadiums. (Playground, Dec. 1917; vol. 11, p. 448–453.)

With table of American stadiums to that date.

Toronto Bureau of Municipal Research. Municipal stadiums. 6 p. (Citizen Control of Citizen's Business, White Paper no. 36, Feb. 21, 1920.)

Contains table giving areas and cost per seat.

4369 American Association of Park Superintendents. Municipal golf. St. Louis, 1917. 13 p. illus. (Bulletin no. 13.)

Bendelow, T. Municipal golf — some suggestions for instituting and supervising it. (American City, July 1916; vol. 15, p. 1–8. illus., plans.)

Comey, A. C. Municipal golf. (Landscape Architecture, Oct. 1920; vol. 11, p. 19–22.)

Duncan, J. W. Golf in public parks. (American City, Nov. 1921; vol. 25, p. 376–378. illus.)

Fisk, A. A. Construction and maintenance of municipal golf courses. (Playground, Feb., Apr., May, 1921; vol. 14, p. 652–658, vol. 15, p. 8–12, opp. p. 92, 168–175, 177–178. illus. plans.)

Municipal golf links. (National Municipal Review, Jan. 1923; vol. 12, p. 49.)

17 cities in the United States.

Davis, D. F. Municipal lawn tennis increasingly popular. (American City, May 1923; vol. 28, p. 506–507.)

RECREATIONAL WATERFRONTS. WATER PARKS

4370 Baxter, S. Seaside pleasure-grounds for cities. (Scribner's Magazine, June 1898; vol. 23, p. 676–687. illus.)

Bennett, E. H. The beginning of the lake front improvement in Chicago. (American City, Mar. 1917; vol. 16, p. 231–233. illus., plan.)

Gourlay, R. S. Basic principles of waterfront development, Toronto. *See* **2550.**

Howard, J. G. Waterside avenues. (House and Garden, Oct. 1904; vol. 6, p. 164–172. illus.)

Kansas City, Mo., Board of Park Commissioners. Special report for the Blue Valley Parkway, Mar. 1912. 46 p. illus., plans.

Contains valuable illustrations of inland water parks.

Lanagan, F. R. The continuation of the river front improvement in Albany. (American City, Aug. 1920; vol. 23, p. 201, 203, 205. illus.)

Recreational combined with commercial use.

Miller, L. W. River front embankments. (*In* American Academy of Political and Social Science, Housing and town planning, 1914, p. 254–258.)

Newlands, F. G. The treatment of waterfronts. (Journal of American Institute of Architects, Apr. 1916; vol. 4, p. 154–159. illus.)

Also in U. S. Congress, 64th, 1st session. Senate Document 362. Central heating, lighting, and power plant, 1916. Part 3, p. 39–42.

Robinson, C. M., *see* **1745.**

Shurtleff, A. A. Non-navigable waters. (*In* Nolen, J., *ed.*, City planning, 1916, p. 201–226. illus., plans; with bibliography.)

On recreational development.

Smith, F. A. C. Municipal recreation on inland waterfronts; types of shore development and recreation possible for cities possessing a river or a lake. (American City, Apr. 1915; vol. 12, p. 291–298. illus.)

Swift, S. Why not better sea fronts? That many American towns having beaches may be easily beautified is shown by improvements successfully carried out here and abroad. (Indoors and Out, June 1906; vol. 2, p. 112–118. illus.)

Welch, W. A. Public reservation of river fronts as part of the regional plan. (*In* Proceedings of 11th National Conference on City Planning, 1919; p. 147–151.)

On the Palisades Interstate Park.

Wilcox, A. Public reservation of river fronts as part of a regional plan of development. Plan to enlarge the state reservation at Niagara and establish the New York State memorial riverways and reserves. (*In* Proceedings of 11th National Conference on City Planning, 1919, p. 152–158.)

Williams, F. B. The water-front. (*In* his Law of city planning and zoning, 1922, p. 170–172.)

The land-under-water and foreshore report by Mr. Williams for the Plan of New York is mentioned in its Progress Report, Feb. 1923 (*see* **815**), p. 66.

See further material contained in special and general city-planning reports for river, lake, or coast cities, mentioned in *Municipal Accomplishment* (*see* **0**), notably Boston, Chicago, and Detroit; and *further* material on foreign cities notably Hamburg and those on the Rhine and Mediterranean, and some of the cities of South America, such as Rio de Janeiro and Buenos Ayres.

4383 Downer, J. The Bronx River Parkway. (*In* Proceedings of 9th National Conference on City Planning, 1917, p. 91–95. illus.)

See also the published annual reports of the Bronx River Parkway Commission, containing striking views of the river before and after improvement.

Olmsted, F. L. City planning needs of Kansas City with special reference to the treatment of water courses. (*In* Proceedings of 9th National Conference on City Planning, 1917, p. 79–90.)

—— Waterways and related park opportunities. (*In* his Improvement of Boulder, Colorado, 1910, p. 56–80.)

On the park treatment of creeks and irrigation ditches.

TOURIST CAMPS

4460 American Institute of Park Executives. Camps for tourists. (Playground, Dec. 1921; vol. 15, p. 560–561.)

Reports of discussion at convention. Mentioned also in *Parks and Recreation*, Sept.–Oct., 1921, p. 9.

Tourist Camps (cont.)

Elliott, E. C. The case against the tourist camp. (American City, Jan. 1923; vol. 28, p. 77, 79.)

Gregg, J. W. The automobile camping ground; a new element in park design. (American City, June 1919; vol. 20, p. 585, 587, 589. illus.)

—— Essential features of public camp grounds. (Community Leadership, June 1921, p. 6. illus., plan.)

Also contains Representative tourist camping grounds — list compiled by American City Bureau, p. 6–7.

Simmons, C. A. How a city welcomes motor tourists. (American City, July 1920; vol. 23, no. 1, p. 95–97. illus.)

The **tourist camp** — asset or liability? (American City, Apr. 1923; vol. 28, p. 383–385. illus.)

Wallis, R. S. Auto-tourist camps. (National Municipal Review, Apr. 1923; vol. 12, p. 180–185.)

—— Tourist camps. Ames, Iowa, Engineering Extension Dept., 1923. 83 p. illus., plans. (Bulletin 56. Official publication of Iowa State College, Feb. 7, 1923; vol. 21, no. 36.)

CEMETERIES

4880 The **cemetery handbook**, a manual of useful information on cemetery development and management. Chicago, Allied Arts Publishing Co., [1921.] 589 p. illus., plans.

Articles largely from *Park and Cemetery*, arranged to cover the subject. Contains: Organizing and Developing a Modern Cemetery, by Hare & Hare.

Cromarty, W. D. Cemeteries of yesterday and today; their location and layout in relation to the city plan. (*In* Proceedings of Association of American Cemetery Superintendents, 1920, p. 29–31.

Also in Park and Cemetery, Feb. 1921; vol. 30, p. 320–321.

Phillips, T. G. Cemeteries in connection with city planning. (*In* Proceedings of Association of American Cemetery Superintendents, 1921, p. 17–21.)

U. S. National Commission of Fine Arts. American cemeteries in Europe. (*In* its 9th Report, 1919–1921, p. 39–66. illus., plans.)

Significant for underlying esthetic principles of cemetery design.

VEGETATION. CITY PLANTING

4800 Koch, H. Gartenkunst im Städtebau. *See* **4000.**

Nolen, J. Trees and other public plantings. (Landscape Architecture, Apr. 1920; vol. 10, p. 129–136.)

A useful brief summary.

Robinson, C. M. Possibilities of gardening. (*In* his Improvement of towns and cities, 1913, etc., p. 132–151.)

Legislation

4820 Akron, O., City Planning Commission. Rules and regulations governing the platting of land adopted June 15, 1920.

Street tree planting specifications, p. 10–12.

Ellis, D. H. Planting of trees along highways. (Parks and Recreation, Apr. 1920; vol. 3, no. 3, p. 20–21.)

Compiled notes of laws.

Massachusetts Forestry Association. Shade-tree laws of Massachusetts. Boston, June 1915. 32 p.

Michigan. State laws governing the protection and planting of street trees. East Lansing, Mich., 1920. 8 p. (Michigan Agricultural College, Circular no. 41.)

Law noted in *Park and Cemetery*, June 1920.

Model street tree ordinance recently adopted by Racine, Wis. (Parks and Recreation, Apr. 1918; vol. 1, no. 3, p. 62–64.)

Newark, N. J. An ordinance relating to the protection, regulation, and control of shade trees and city parks in the City of Newark, N. J. Approved, 1911. Newark, Shade Tree Committee. 15 p.

STREET AND ROADSIDE PLANTING

4875 Holsworth, W. C. Park areas in city streets: comprehensive planning necessary for good street planting. (Parks and Recreation, Nov.–Dec. 1921; vol. 5, p. 117–120.)

Simonds, O. C. Landscape gardening in its relation to roadside planting. (Journal of the International Garden Club, June 1918; vol. 2, p. 187–201. illus.)

Waugh, F. A. The public road — our great national park. (House Beautiful, June 1920; vol. 47, p. 508–509, 528. illus.)

Waugh, F.A., and P.H. Elwood. Street and roadside planting. 4 p. illus., plans. (Facts for Farmers, Mass. Agricultural College, Extension Service, vol. 6, no. 5, Jan. 1916.)

Also in American City, Town and County Edition, June 1916; vol. 14, p. 571–574. illus., plans.

See also **2116,** Parking of streets.

Street Trees

4885 Bannwart, C. The movement for city street trees — a survey. (National Municipal Review, Apr. 1915; vol. 4, p. 238–244.)

—— Trees for city planting. (American City, Nov. 1921; vol. 25, p. 367–370. illus.)

The best species of trees for city streets. Opinions from city foresters and shade tree commissioners in ten representative cities. (American City, Mar. 1912; vol. 6, p. 565–569. illus.)

Bennem, J. G. Importance of well-shaded city streets. (American City, Jan. 1918; vol. 18, p. 69, 71, 73, 75. illus.)

Chicago. Special Park Commission. Trees and lawns for the streets, by J. H. Prost. Chicago, Apr. 1914. 29 p. illus. (Pamphlet no. 6.)

An example of a stimulus to civic improvement.

Cox, L. D. A street tree system for New York City, Borough of Manhattan. 89 p. illus., plans. (Syracuse University, New York State College of Forestry Bulletin, vol. 16, no. 8, Mar. 1916.)

—— Trees for adverse city conditions; from New York Report. (Park and Cemetery, Aug. 1916; vol. 26, p. 170–172. illus.)

Fernow, B. E. The care of trees in lawn, street and park, with a list of trees and shrubs for decorative use. New York, Henry Holt & Co., 1910. 392 p. illus. (American Nature Series.)

Francis, H. R. Roadside trees; discussing their existing conditions and values and recommending their future management for New York State. 16 p. (Syracuse University, New York State College of Forestry, Circular no. 17, vol. 17, no. 7, Mar. 1919.)

—— Suggestions for proper procedure in systematic street tree planting for towns and cities of New York. 56 p. illus. (Syracuse University, New York State College of Forestry Bulletin, vol. 15, no. 4, Mar. 1915.)

Grimes, J. L., *see* **2252.**

Mulford, F. L. Planting and care of street trees. 35 p. illus. (U. S. Dept. of Agriculture, Farmers' Bulletin 1209, Aug. 1921.)

Contains list of publications of Dept. of Agriculture relating to insect pests.

—— Trees for town and city streets. 40 p. illus. (U. S. Dept. of Agriculture, Farmers' Bulletin 1208, issued Mar. 1922, rev. June 1922.)

Nolen, J., *see* **4800.**

Peets, E. Street trees in the built-up districts of large cities. (Landscape Architecture, Oct. 1915; vol. 6, p. 15–31.)

Phillips, T. G. City tree planting. The selection, planting, and care of trees along city thoroughfares. Detroit, 1910. Revised, 1914. 25 p. plans. (Detroit City Plan and Improvement Commission, Report no. 1.)

Also in American City, Sept., Oct. 1910; vol. 3, p. 131–135, 179–183. illus.

Pierce, W. D. Insect pests must be considered in city planning and planting. (American City, June 1922; vol. 26, p. 607, 609.)

For references on insect pests, *see* **Mulford,** *ante.*

Robinson, C. M. The tree's importance. (*In* his Improvement of towns and cities, 1913, etc., p. 113–131.)

Solotaroff, W. The city's duty to its trees. (American City, Mar., Apr. 1911; vol. 4, p. 131–134, 166–168. illus.)

With special reference to East Orange, N. J.

—— Municipal control of shade trees; from an address before American Civic Association, 1911. (American City, Feb. 1912; vol. 6, p. 489–490.)

—— Shade-trees in towns and cities; their selection, planting and care as applied to the art of street decoration; their diseases and remedies; their municipal control and supervision. New York, John Wiley & Sons, 1911. 287 p. illus.

A standard work, embodying the experience of the author in East Orange, N. J.

Waugh, F. A. Native trees in city streets. (American City, May 1921; vol. 24, p. 497. illus.)

See further annual reports of Shade Tree Commissions of East Orange and Newark, N. J.

Street Trees (cont.)

4893 Adshead, S. D. Trees. (Town Planning Review, Jan. 1915; vol. 5, p. 300–306. illus.)

European use for street and boulevard planting.

Mawson, T. H. Boulevards, parkways, avenues and plantations. (*In* his Civic art, 1911, p. 147–158. illus., plans.)

LOT PLANTING

4900 A **California** city beautiful campaign. (American City, Feb. 1917; vol. 16, p. 168–169. illus.)

Whittier garden contest.

Geyer, O. R. Cleaning and beautifying a city. (American City, Apr. 1917; vol. 16, p. 365–368. illus.)

"The famous yard and garden contests of Davenport, Iowa."

Iowa State College of Agriculture and Mechanic Arts. Yard and garden contest, by C. L. Fitch. Ames, Iowa, Mar. 1915. 16 p. illus. (Agricultural Extension Dept., Bulletin no. 32.)

—— Home, yard, and garden contests, by R. J. Pearse. Mar. 1916. 15 p. illus. (*Ibid.*, no. 38.)

Rose and shrubbery planting week in Dallas. (American City, Mar. 1917; vol. 16, p. 284–285. illus.)

Woodbury, C. G. The yard improvement contest in Lafayette, Ind. (American City, Mar. 1915; vol. 12, p. 221–227. illus.)

Woodward, R. B. Making the "Flower City" (Rochester, N. Y.) justify its name. (American City, Apr. 1916; vol. 14, p. 375–378. illus.)

Chamber of Commerce yard improvement campaign.

Note such bulletins as those issued by the Chicago Special Park Commission on Gardens, Apr. 1915, and by the Commission for Beautifying The City of Norfolk, Va., on Lawns and on "What, where, when, and how to plant."

The bulletins published by the U. S. Dept. of Agriculture and State departments or agricultural experiment stations to promote yard planting may also be consulted.

4905 Making idle land work; successful experience of local organizations. (American City, Feb. 1916; vol. 14, p. 131–134. illus.)

On vacant lot gardens.

For vacant lot gardens, *see especially* literature relating to work in New York, Newark, Philadelphia, Cleveland, Detroit, Indianapolis, Des Moines, Minneapolis, etc.

4907 Jarvis, C. D. Gardening in elementary city schools. Washington, Govt. Printing Office, 1916. 74 p. illus. (U. S. Bureau of Education, Bulletin no. 40.)

See also the publications of the School Garden Association of America, 121 East 51st St., New York City.

BUILDING DECORATION

4910 Budd, K. C. Plant decoration. (Municipal Affairs, Sept. 1901; vol. 5, p. 685–695. illus.)

4914 Boecklin, W. Shrubs for the city house front. (House Beautiful, Feb. 1915; vol. 37, p. 72–74. illus.)

Boyer, J. The window gardens of Paris. (House and Garden, July 1909; vol. 16, p. 8–10.)

Chicago Association of Commerce. Flower boxes for Chicago. [Chicago, 1914.] 9 p. illus.

A publication issued in connection with a campaign for decorating the city streets.

The **summer** hanging gardens of the city: their planting and care. (Craftsman, May 1915; vol. 28, p. 156–162. illus.)

Sutcliffe, A. C. City gardens at doorway and window. (House Beautiful, Nov. 1916; vol. 40, p. 348–349. illus.)

For the planting of railroad grounds, *see* **2460** ff.; of parks and playgrounds, *see* **4000** ff.

TYPES OF CITY PLANS

5200 Fleure, H. J. Some types of cities in temperate Europe. (Geographical Review, Dec. 1920; vol. 10, p. 357–374. illus., maps.)

Hurd, R. M. Ground plan of cities. (*In* his Principles of city land values, 1903, p. 33–55. illus., plans.)

Nolen, J. Types of city plans. (American Architect, Feb. 18, 1920; vol. 117, p. 213–215. plans, diagr.)

Pedrini, A. Le città, i borghi, le ville. — Le città operaie. L'estetica e l'igiene. (*In* his La città moderna, Milano, U. Hoepli, 1905, p. 182–213. plans.)

Stübben, J. Moderne Beispiele ganzer Stadtbaupläne. (*In* his Der Städtebau, 1907, p. 335–349. plans.)

Triggs, H. I. Types of ancient and modern towns. (*In* his Town Planning, 1990, p. 85–119. plans.)

Unwin, R. Of the individuality of towns, with a slight sketch of the ancient art of town planning. (*In* his Town Planning, 1909, etc., p. 15–114. illus., plans.)

See also **210** ff.

TYPES DISTINGUISHED BY DOMINANT FUNCTION

Capital Cities

5305 Brown, F. C. A proposed new summer capital and national center for the United States of America. (Architectural Review, Apr. 1918; vol. 6, p. 47–54. illus., plans.)

A federal district for Ottawa. (Journal of the Town Planning Institute of Canada, Apr. 1922; vol. 1, no. 9, p. 3–6. plan.)

The London Society. London of the future, by the London Society under the editorship of Sir Aston Webb. London, T. Fisher Unwin, Ltd., also New York, E. P. Dutton, 1921. 286 p. illus.

U. S. National Commission of Fine Arts. Ninth report, July 1, 1919–June 30, 1921. Washington, Govt. Printing Office, 1921. 135 p. illus., plans.

Contains a summary of progress of the Park Commission Plan for the development of our National Capital (*also reprinted*). The issues of the *National Geographic Magazine* for Mar. 1915, and May 1923 contain articles on the Plan by ex-President Taft, Charles Moore, and others.

For material on governmental cities, *see especially* **880,** competitions for capitals of Australia and India and for Paris.

For the World capital proposed, *see* **5550, Anderson and Otlet.**

War Camp Cities

5311 Fuller, G. W. Lessons from experience with emergency construction work. (Engineering and Contracting, June 26, 1918; vol. 49, p. 643–644.)

Extract from long paper presented before American Society of Civil Engineers.

Ihlder, J. Wooden cities; the National Army cantonments; an illustration of the value of thinking before acting. (National Municipal Review, Mar. 1918; vol. 7, p. 139–145.)

Knowles, M. Cantonment construction. (*In* Proceedings of Engineers' Society of Western Pennsylvania, 1918–19; vol. 34, p. 191–225. illus., plans.) *Also reprinted.*

Manning, W. H. Planning the cantonments; the work of the American Society of Landscape Architects in their design. (American City, Apr. 1918; vol. 18, p. 331–336. illus., plans.)

Pray, J. S. Planning the cantonments. (Landscape Architecture, Oct. 1917; vol. 8, p. 1–17. illus., plans.)

Sheridan, L. V. Planning a war cantonment — Camp Pike. (*In* Proceedings of 10th National Conference on City Planning, 1918, p. 125–144; with discussion, p. 144–147.)

U. S. Army. Construction Division. National Army cantonments; plans and photographs, June 1918, a compilation of plans of the sixteen National Army cantonments, together with photographs showing typical buildings and their construction, selected from progress photographs sent from the various cantonments. Prepared under the direction of George Gibbs, Jr., Major, Q.M.C. Washington, Construction Division, War Department, [1918]. 94 p.

War Camp Cities (cont.)

U. S. Army. Construction Division. Section C Engineering Division Manual, 1918. Washington, Consolidated Supply Co., Printers, 1919. 117 p. + 153 plates. illus., plans.
Embodies experiences in war emergency construction. *See also* the Annual report of the Division for 1918.

Industrial Cities

5320 Lewis, N. P. The industrial town or district. (*In* his Planning of the modern city, 1916 and 1923, p. 186–199. illus., plans.)

Manning, W. H. Plan of Birmingham, Ala. *See* **6100.**
An important study of an industrial region.

Nolen, J. The industrial village. New York, National Housing Association, Sept. 1918. 22 p. plans. (Publication no. 50.)
See also Mr. Nolen's Mariemont, **1426.**

Ontario. Bureau of Municipal Affairs. Report *re* housing for 1921, including town planning of the town of Kapuskasing. Toronto, 1922. 27 p. plans.
Government coöperation in the development of a model industrial town. Description by consulting town planner A. V. Hall in *Journal of Town Planning Institute of Canada*, June 1922.

Planning and building new towns in Canada: Kipawa. (Conservation of Life, Jan. 1919; vol. 5, p. 10–16. illus., plans.)

Planning problems of industrial cities: Niagara Falls as an illustration, by J. Nolen; The Halifax disaster and rehousing, by G. A. Ross; A plan for the Birmingham, Alabama, district, by W. H. Manning. (*In* Proceedings of 10th National Conference on City Planning, 1919, p. 22–51.)

Shuman, I. Kingsport (Tenn.) an unusual city, built to make business for a railroad. (American City, May 1920; vol. 22, p. 471–473.)
A new industrial town designed by John Nolen.

Taylor, G. R. Satellite cities; a study of industrial suburbs. New York, D. Appleton & Co., 1915. 233 p. illus., plans. (National Municipal League series.)
The matter appeared originally as a series of articles in the *Survey*, 1912–1913.

See also **1426,** Decentralization; **1650,** Industrial districts; **1697,** Low-cost residential districts, including Industrial housing; and **5350,** Garden cities.

Mining Towns and Labor Camps

5322 Black, R. U. The planning of a new town. (American City, Apr. 1920; vol. 22, p. 383–386. illus., plan.)
Dawson, Colo.

Morrow, I. F. Two town planning projects in Arizona, Herding and Boyd, architects. Design for mining town near Jerome; town plan for Clarkdale. (Architect and Engineer, Dec. 1920; vol. 63, p. 47–87. illus., plans.)
The new mining community of Tyrone, N. M., now building for the Burro Mt. branch of the Phelps Dodge Corporation, B. G. Goodhue, architect. (Architectural Review, Apr. 1918; vol. 6, p. 59–62. illus., plans.)

White, J. H. Houses for mining towns. Washington, Govt. Printing Office, 1914. 64 p. illus. (U. S. Bureau of Mines, Bulletin 87.)

5323 California. Commission of Immigration and Housing. Advisory pamphlet on camp sanitation and housing. San Francisco, The Commission, 1919. 79 p. illus., plans.
Labor camp planning.

Construction camps model towns on Miami Flood Works; villages of homes, with schools, community halls, markets, water mains, lights and sewers, house workmen at the five large dams being built. (Engineering News-Record, Sept. 26, 1918; vol. 81, p. 575–578. illus., plans.)

Sanitation of rural workmen's areas with special reference to housing. (*In* U. S. Public Health Reports, Sept. 6, 1918; vol. 33, p. 1477–1507. illus., plans.)
See also **1697, Magnusson.**

Health Resorts

5333 Atkinson, R. Bath, a planned city. (Journal of the American Institute of Architects, Mar. 1923; vol. 11, p. 95–109. illus., plan.)

Cockrill, J. W. The development of British watering places after the war. (*In* Town Planning Institute, London, Papers and discussions, 1917–18, vol. 4, p. 45–52; with discussion, p. 53–59.)

Hot Springs, Ark. (*In* American Institute of Architects, City planning progress, 1917, p. 75–76. illus.)

Description of American Thermae Co. project for making a great bath resort, with view of Geo. B. Post & Sons lay-out.

Lasker, B. The wand of Manitou: the development of a great health resort, by public enterprise [Saratoga Springs]. (Survey, June 5, 1920; vol. 44, p. 329–336. illus.)

Richardson, A. E. The development of Cheltenham in the early nineteenth century. (Town Planning Review, April 1916; vol. 6, p. 226–232. illus.)

Swiss Society for Balneology and Climatology, *ed.* Swiss spas, mineral waters, baths, climatic resorts and sanatoria of Switzerland. Zurich, Publishing Office, Swiss Exporter, Ltd., Tourist Department, 1921. 318 p. illus., map.

Garden Villages for Disabled Ex-service Men

5349 Draper, W. Village settlements for disabled ex-service men. (Garden Cities and Town Planning, Oct. 1917; vol. 7, p. 48–52.)

Mawson, T. H. An imperial obligation: industrial villages for partially disabled soldiers and sailors. London, Grant Richards, Ltd., 1917. 124 p. illus., plans.

Reviewed in Landscape Architecture, Oct. 1918; vol. 9, p. 32–34.

—— Afforestation and the partially disabled, a sequel to An imperial obligation: industrial villages for partially disabled soldiers, sailors, and flying men. London, Grant Richards, Ltd., 1917. 46 p. illus., plan. (Concrete Example Series)

Reviewed in Landscape Architecture, Oct. 1918; vol. 9, p. 38–39.

Memorial industrial village. (Journal of the Town Planning Institute of Canada, Feb. 1922; vol. 1, no. 8, p. 3–6. plans.)

Garden Cities

5350 Abercrombie, P. Modern town planning in England. A comparative review of "Garden City" schemes in England. (Town Planning Review, Apr., July 1910; vol. 1, p. 18–38, 111–128. illus., plans.)

Still useful for reference on the beginnings of the movement.

Adams, T. Community development in wartime. (Landscape Architecture, Apr. 1918; vol. 8, p. 109–124.)

Offers the garden city as a solution.

Adams, T. The value of the agricultural belt to garden cities. (Garden Cities and Town Planning, June 1921; vol. 11, p. 143–145.)

See also Adams and other articles on agricultural belts, **1715.**

Chambers, Sir T. G. How to get garden cities established throughout the world. (*Ibid.*, June 1922; vol. 12, p. 97–99.)

—— London's first satellite town; an account of the garden city at Welwyn. (*Ibid.*, May 1920; vol. 10, p. 95–99; 4 p. supplement. illus.)

Culpin, E. G. The garden city and the manufacturer. (*Ibid.*, Feb. 1915; vol. 5, p. 30–38. illus.)

—— The garden city movement up-to-date, 1914. London, Garden Cities and Town Planning Association. 82 p. illus., plans.

Still the latest edition of annual publications of the same title. Not revised since the War.

—— The lesson of Letchworth. (Garden Cities and Town Planning, Dec. 1917; vol. 7, p. 66–69.)

Deutsche Gartenstadt-Gesellschaft. Die deutsche Gartenstadtbewegung. Zusammenfassende Darstellung über den heutigen Stand der Bewegung. Berlin-Schlachtensee, Die Gesellschaft, 1911. 112 p. illus., plans.

History and examples of German Garden cities. Should be supplemented by files of periodical published by the Society and of the periodical *Städtebau*. A manifesto on garden city policy in Germany by the Society is translated in *Garden Cities and Town Planning*, July 1920.

Garden Cities and Town Planning (Magazine), *see* **2.**

Special numbers should be particularly noted:

Second Garden City (Welwyn), Oct. 1919; vol. 9, no. 10.

Satellite towns, May 1920; vol. 10, no. 5.

Letchworth Garden City, Aug. 1920; vol. 10, no. 8.

Garden Cities and Town Planning Association. The development of garden cities; memorandum drafted to give expression to the conclusions of the Council of the Garden Cities and Town Planning Association in conference at Welwyn. (Garden Cities and Town Planning, Dec. 1921; vol. 11, p. 267–268.)

Garden Cities (cont.)

Howard, E. Garden cities of tomorrow (being the second edition of: To-morrow; a peaceful path to real reform). London, S. Sonnenschein & Co., 1902. 167 p. illus.

This book began the "Garden City Movement."

Morrison, H. A new London: labour's view of the satellite towns. Paper given at Satellite Town Conference, Feb. 21, 1920. (Garden Cities and Town Planning, May 1920; vol. 10, p. 99–105.)

Nettlefold, J. S. Garden cities and canals. *See* **2580.**

New definition of Garden City agreed upon by Garden Cities and Town Planning Association. (Housing Betterment, June 1921; vol. 10, p. 207.)

New towns after the war; an argument for garden cities by New Townsmen. London, J. M. Dent & Sons, Ltd., 1918, 84 p.

Notes that a National Garden Cities Committee was formed to advocate the building of new towns, with committee headquarters at the Garden Cities and Town Planning Association.

Purdom, C. B. The Garden City; a study in the development of a modern town. London, J. M. Dent & Sons, 1913. 329 p. illus., plans.

Letchworth, England, the first garden city.

—— The garden city principle; notes of a lecture given to the Oxford Housing Lecture School, at Balliol College, Oxford. (Garden Cities and Town Planning, June–July 1919; vol. 9, p. 104–108, 123–127.)

—— *ed.* Town theory and practice, by W. R. Lethaby, George L. Pepler, Sir Theodore G. Chambers, Raymond Unwin, R. L. Reiss, edited with an introduction by C. B. Purdom. London, Benn Brothers, 1921. 139 p. maps, plans, diagr.

An up-to-date and thorough exposition of the garden city by leading proponents.

Unwin, R. New problems in town planning. (Garden Cities and Town Planning, May 1920; vol. 10, p. 108–113.)

The garden city solution.

Welwyn garden city. (*Ibid.*, Aug. 1921; vol. 11, p. 192–195. illus., plan.)

Adaptation to America

Adams, T. An American garden city. Paper delivered at convention of American Civic Association, 1920. (National Municipal Review, January 1921; vol. 24, p. 31–38.)

Bright, J. I. Housing and community planning: The plan for Coconut Grove, Florida. Foreword by T. Adams, report by J. I. Bright. (Journal of the American Institute of Architects, Apr. 1921; vol. 9, p. 110–127. illus., maps, plans.)

See also Montoliu Fairhope plan under **5550.**

Comey, A. C., *see* **6100.**

Hooker, G. E. Garden cities. (*In* Proceedings of 3d National Conference on Housing, Housing Problems in America, 1913, vol. 3, p. 13–28; with discussion, p. 89–100.)

Also in Journal of American Institute of Architects, Feb. 1914; vol. 2, p. 80–91. illus.

U. S. Congress, 64th, 2d Session. Senate. Garden city movement; hearing before the subcommittee of the Committee on Agriculture and Forestry, Feb. 9, 1917. Washington, Govt. Printing Office, 1917. 53 p.

Evidence largely by R. B. Watrous and W. T. Love of Lomax, Ill.

Veiller, L. Are great cities a menace? The garden city as a way out. (Architectural Record, Feb. 1922; vol. 51, p. 175–184. illus.)

Also reprinted as National Housing Association Publication no. 57, Feb. 1922.

Whitten, R. H., *see* **6100.**

Ideal Types

5550 Abercrombie, P. Ideal cities. No. 1. Christianopolis. No. 2. Victoria. (Town Planning Review, Apr. 1920, Mar. 1921; vol. 8, p. 99–104, vol. 9, p. 15–20. illus., plans.)

Andersen, H. C. Creation of a world centre of communication. E. M. Hébrard, architect. Paris, 1913. 128 + 102 p. illus., plans.

Limited edition de luxe.

Chambless, E. Roadtown. New York, Roadtown Press, [1910]. 172 p.

A theoretical scheme for an ideal town.

Cram, R. A. Walled towns. Boston, Marshall Jones Co., 1919. 105 p.

A social ideal for the correction of modern industrial civilization, with a description of the physical town.

The **greatest** city. (Survey, Feb. 11, 1922; vol. 47, p. 764–765.)

On the projects by Henry Ford and Roger Babson for ideal industrial and economic centers.

Hughes, W. R., *ed.* New town; a proposal in agricultural, industrial, educational, civic, and social reconstruction. Edited for the New Town Council. London, J. M. Dent & Sons, 1919. 141 p.

Huntington, C. W. Enclaves of single tax, being a compendium of the legal documents involved together with a historical description. Published by Fiske Warren, Harvard, Mass., 1921. 150 p. plan.

On the principles of single-tax colonies with examples. Contains Montoliu plan for Fairhope.

Model towns and communities. (Garden City, 1906, N. S., vol. 1.)

Plato's Republic, Owen's proposed model town of " Harmony. (Feb. p. 16–18. illus.)

Model town of James Silk Buckingham. (Mar., p. 33. illus.)

The influence of Carlyle, Ruskin and Emerson. (May, p. 76–80.)

Early coöperative communities in the United States. (July, p. 130–131.)

Montoliu, C. Fairhope (a single-tax colony) — a town-planning scheme for its development into an organic city. (American City, Apr. 1921; vol. 24, p. 355–359. plan.)

Also in Garden Cities and Town Planning, July 1921; vol. 11, p. 162–166. illus., plan.

Otlet, P. The foundations of world society, and the need for an intellectual and civic centre of International reconstruction. (Survey, Feb. 1, 1919; vol. 41, p. 598–601.)

Proposed international city as administrative center of League of Nations and international intellectual interests; after Andersen plan.

Roveda, P. "The city of the sun." (American City, Aug. 1917; vol. 17, p. 118–121. plans.)

Based on a system of circles with radiating lots, and intended to solve the housing problem.

Verne, J. An ideal city. (House Beautiful, Feb. 1923; vol. 53, p. 160, 208.)

Wood, E. E. The Spanish linear city. (Journal of the American Institute of Architects, May 1921; vol. 9, p. 169–174. illus.)

Summary of project on which several publications from the press of the " Ciudad Lineal," Madrid, were issued.

TYPES DISTINGUISHED BY SIZE

5605 Adshead, S. D. The development of the English village. (Town Planning Review, Apr. 1919; vol. 8, p. 37–46.)

Changeur, A. La protection du village. (*In* Congrès International et Exposition comparée des Villes, Ghent, 1913, Rapport, 1914, S.I., p. 205–210.)

Douglass, H. P. The little town; especially in its rural relationships. New York, Macmillan Co., 1919. 258 p. illus., plans.

Farwell, P. T. Village improvement. New York, Sturgis & Walton Co., 1913. 362 p. illus., plans. (The Farmer's Practical Library.)

Kuhn, W. Kleinsiedlungen aus Friderizianischer Zeit. Stuttgart, Wilhelm Meyer-Ilschen, 1918. 142 p. illus., plans. (Deutscher Bund Heimatschutz und Vereinigung für Deutsche Siedlung und Wanderung.)

Ripley, H. G. The village that ought to be. (House Beautiful, Mar. 1922; vol. 51, p. 193–196.)

Walpole, Mass., Town Planning Committee. Town planning for small communities. New York, D. Appleton & Co., 1917. 492 p. illus., plans.

Waugh, F. A. A comparison of town plans. (Landscape Architecture, July 1921; vol. 11, p. 161–166.

On village planning in New England.

—— Rural improvement; the principles of civic art applied to rural conditions, including village improvement and the betterment of the open country. New York, Orange Judd Co., 1914. 265 p. illus., plans.

5610 Dealey, G. B. Planning the small cities. (*In* Proceedings of 9th National Conference on City Planning, 1917; vol. 9, p. 128–132.)

Types distinguished by Size (cont.)

Hayler, G. W. Town planning actualities, some recently executed improvement schemes in American small towns. (American Review of Reviews, Dec. 1920; vol. 62, p. 633–637. illus., plan.) *Also reprinted.*

Nolen, J. Examples of city planning in small places. (*In* Proceedings of 9th National Conference on City Planning, 1917, vol. 9, p. 117–127.)

—— Planning problems of smaller cities in the United States. (*In Ibid.*, 8th Conference, 1916, p. 184–198; with short papers by J. W. Shirley and A. C. Comey, and discussion p. 199–221.)

—— Replanning small cities; six typical studies. New York, B. Huebsch, 1912. 218 p. illus., plans.

Shirley, J. W. Planning the smaller city: street systems including transit problems. (*In* Proceedings of 8th National Conference on City Planning, 1916, vol. 8, 199–214.)

5620 For literature relating to the problems of great cities, *see especially* **1424,** Growth of cities; **1600** ff., Zoning and districts; **2076,** Street traffic; **3475** ff., Building heights.

REGIONAL PLANNING

6100 Adams, T. Regional and town planning. (*In* Proceedings of 11th National Conference on City Planning, 1919, p. 77–102.)

Also published as: The regional survey as the basis for the regional plan, and the regional plan as the basis for the town plan, *in* Landscape Architecture, July 1919; vol. 9, p. 173–179. *Extracts in* Engineering News-Record, June 5, 1919, *and* American City, July 1919.

—— Regional surveys in relation to municipal planning. (Engineering News-Record, Aug. 4, 1921; vol. 87, p. 201–202.)

From paper before American Society of Municipal Improvements, *see* **1521.**

Budden, L. B., *see* **1292.**

Comey, A. C. Regional planning theory, a reply to the British challenge. Cambridge, Mass., The Author, 1923. 18 p. diagr.

A substitute for the garden city theory. *Also in* Landscape Architecture, Jan. 1923; vol. 13, p. 81–96.

Donald, W. J. Regional planning in motion. (*In* Proceedings of 11th National Conference on City Planning, 1919, p. 103–114.)

Fleure, H. J. The regional survey preparatory to town planning. (*In* Town Planning Institute, London, Papers and discussions, 1917–18, vol. 4, p. 31–38; with discussion, p. 39–43.)

Ford, G. B. Regional and metropolitan planning, principles, methods, coöperation. (Prepared for the National Conference on City Planning, Baltimore, Apr. 30, 1923.) [32 p.] *Also to be published in the Conference Proceedings.*

Geddes, P., and G. Slater. Ideas at war. London, Williams & Norgate, 1917. 256 p. (Vol. 2 of The Making of the Future Series, ed. by Geddes and Branford.)

Regionalism as the hope of reconstruction. The French origins of the movement explained.

Ihlder, John. The city plan and living and working conditions. *See* **1426.**

Planning in regional terms.

Knowles, M. Engineering problems of regional planning. (*In* Proceedings of 11th National Conference on City Planning, 1919, p. 115–138.) *Also reprinted.*

Abstracts in Engineering News-Record, June 12, 1919; vol. 82, p. 1173–1175; *and* American City, Aug. 1919; vol. 21, p. 116–118.)

La Farge, C. G., *see* **1300.**

Lewis, N. P. The environs of the city. (*In* his The planning of the modern city, 1923, p. 296–308. illus., plans.)

——. Regional planning. (*In* Proceedings of American Society of Civil Engineers, Mar. 1923; vol. 49, p. 554–560.)

National Conference on City Planning. Report on regional planning prepared by B. A. Haldeman for the Committee on Regional Planning. (*In* its 12th Proceedings, 1920, p. 118–128; with discussion, p. 128–132.)

—— Regional planning: Sewerage and water supply — Niagara Frontier, by T. W. Barrally; Public reservation of river fronts as part of the regional plan, by W. A. Welch; and Public reservation of river fronts as part of a regional plan of development, by A. Wilcox. (*In* Proceedings of 11th National Conference on City Planning, 1919, p. 139–158.)

Ross, J., *see* **6300, Development surveys.**

Whitten, R. Regional zoning. Paper read at 15th National Conference on City Planning, May 1, 1923. *To be published in the Conference Proceedings.*

An important and practical contribution. Proper growth of cities to be handled by a series of satellite towns with "open-development strips."

See also **1426,** Decentralization; and **1525,** Metropolitan districts.

American

Fesler, M. Metropolitan planning for Chicago and environs. Conferences of villages and cities about Chicago called by City Club. (American City, Apr. 1923; vol. 28, p. 377–378.)

Grinnalds, J. C. A state bureau for regional and town planning, including a boulevard between Baltimore and Washington. (Municipal Journal, Baltimore, Feb. 10, 1922; vol. 10, no. 3, p. 1–2.)

Regional Planning (cont.)

Joint committees to prepare enabling legislation for Allegheny County Planning Commission. (Progress, Pittsburgh, Mar. 1922; vol. 2, p. 1–2.)

Kelsey, F. W. The first county park system. A complete history of the inception and development of the Essex County parks of New Jersey. New York, J. S. Ogilvie Publishing Co., 1905. 300 p. illus., map.

Brief account in *Annals* of American Academy of Political and Social Science, Mar. 1910.

Knowles, M. Report upon metropolitan water and sewerage systems to the Essex Border Utilities Commission, Ontario. Windsor, Ont., The Record Printing Co., Ltd., 1917. 108 p. maps, diagr.

MacKaye, B. An Appalachian trail, a project in regional planning. (Journal of the American Institute of Architects, Oct. 1921; vol. 9, p. 325–330. map.)

Manning, W. H. Warren H. Manning's city plan of Birmingham. Published by subscription, Birmingham, Ala., 1919. 47 p. illus., maps.

Described by the author *in* Proceedings of the 11th National Conference on City Planning, 1919, vol. 11, p. 47–51.

New York, New Jersey Port and Harbor Development Commission. Joint report with comprehensive plan and recommendations. Albany, J. B. Lyon Co., 1920. 495 p. illus., plans, diagr.

A monumental regional document.

Ohio and **Massachusetts** enact legislation for regional planning. (American City, June 1923; vol. 28, p. 613–614,)

Pennsylvania. Bureau of Municipalities. Report and plans for the extension and improvement of the city plan of the city of Wilkes-Barre and neighboring municipalities, Luzerne County, Pennsylvania. Prepared in response to requests of the Mayor, Council, City Planning Commission and Chamber of Commerce. June 1, 1921. 84 p. illus., plans. (B. A. Haldeman, Chief, Division of City Planning and Municipal Engineering.)

Plan of New York and its environs. The meeting of May 10, 1922. New York, Russell Sage Foundation, 1922. [25 p.]

The most important regional study yet undertaken in the United States. (For Progress Report, 1923, *see* **815.**)

Notices appeared in Engineering News-Record, May 18, 1922; American City, June 1922; *and* Housing Betterment, Nov. 1922.

Regional Planning Conference of Los Angeles County, Calif. Conclusions at Glendale, Sept. 16, 1922. Interlocking specification for the regional plan, Los Angeles County. (Published by Secretary, City Hall, Los Angeles.) 8 p. plan.

Reinberg, P. County forests for citizens. (American City, May 1917; vol. 16, p. 519, 521, 523, 525. illus.)

Cook County Forest Preserve District, Illinois.

Webster, G. S. What comprehensive plan should be provided for the areas adjacent to the Delaware River, between Philadelphia and Wilmington? (City Plan, Apr. 1918; vol. 3, no. 4, p. 14–20.)

Whitnall, C. B. By regional planning the Milwaukee of tomorrow conserves nature's attributes. (Parks and Recreation, Mar.–Apr. 1923; vol. 6, p. 278–285. illus., plan.)

The Boston Metropolitan Park reports beginning 1893 are important regional documents and also the Boston Metropolitan Water and Sewerage reports from 1890 and 1895. The present Metropolitan District Commission reports continue these files.

The Municipal Plan Commission's *Plan of Seattle* by V. G. Bogue, 1911, is considered the earliest American city plan report based on a regional area (T. Adams). During the War, regional surveys were made for the Indiana steel towns and a beginning made for the Philadelphia region. The Pennsylvania State Bureau of Municipalities, Division of Town Planning, made a demonstration survey of the Wilkes-Barre region (see above). Very interesting regional planning provisions are included in the proposed Nausau County (New York) charter.

English

Abercrombie, P., and T. H. Johnson. The Doncaster regional planning scheme. Report prepared for the Joint Committee, together with an appendix on coal subsidence, by J. Humble. London, University Press of Liverpool, 1922. 93 p. illus., plans.

An important and thorough report.

Fawcett, C. B. Provinces of England, a study of some geographical aspects of devolution. London, Williams & Norgate, 1919. 296 p. maps. (The Making of the Future Series.)

Great Britain. Ministry of Health. Report of the South Wales Regional Survey Committee. London, H. M. Stationery Office, 1921. 80 p. maps.

Discussed by E. L. Chappell and others *in* Town Planning Institute, London, Papers and discussions, 1920–21, vol. 7, p. 69–85; *and* Garden Cities and Town Planning, Dec. 1921; vol. 11, p. 247–277. maps.

Housing, published by British Ministry of Health. Special number, devoted to regional planning. July 5, 1920; vol. 1, p. 349–363.

London Society. London of the future. *See* **5305.**

Plans for the London region. A later note on London regional planning will be found in *Garden Cities and Town Planning*, July–Aug. 1922.

Manchester and District Joint Town Planning Advisory Committee. A record of the town planning exhibition. *See* **40.**

The most important collected information on British regional planning.

French and Belgian

De Vuyst, M. P. L'esthétique rurale. (*In* Congrès International et Exposition Comparée des Villes, Ghent, 1913, Rapport, 1914, s. l., p. 27–34.)

By an official of the Belgian Ministry of Agriculture, in regard to the preservation of regional characters.

The **exhibition** of regional architecture in the invaded provinces of France, held at Paris during Jan. and Feb., 1917. (Journal of the American Institute of Architects, Mar. 1917; vol. 5, p. 107–114. illus.)

A translation from the preface to program of the Exposition, with selected reproductions of material exhibited.

Exposition de l'architecture regionale dans les provinces envahies, 1917. Conférences et compte-rendu, Paris, [Société des Architectes Diplômés par le Gouvernement], 1917. 100 p. illus., plans.

France. Ministère de l'Instruction Publique et des Beaux-Arts. Fermes et habitations rurales: projets primés au Concours ouvert entre les architectes français. Paris, Librairie Générale de l'Architecture et des Arts Décoratifs, 1918. [20 p. + 100 plates.] 3 portfolios.

Farm designs based on regional characteristics. Discussed in *Journal of the American Institute of Architects*, Oct. 1918.

Jaussely, L. Les cités dévastées par la guerre, études de reconstitution. I. Un concours de plan de ville. La reconstitution de Chauny et de sa région. (La Vie Urbaine, Mars–Juin 1919; vol. 1, p. 109–144. map.)

See also **1293,** Reconstruction, after war.

RURAL PLANNING

Including LAND SETTLEMENT

6300 Adams, T. Rural planning and development; a study of rural conditions and problems in Canada. Ottawa, Commission of Conservation, 1917. 281 p. illus., plans, maps. *Out of print.*

The most important work on rural planning. See note in *American City*, Nov. 1917, p. 409–410.

Adshead, S. D. Town planning and the rural problem. (Town Planning Review, Jan. 1914; vol. 4, p. 276–286.)

Aust, F. A. Country planning in Wisconsin. (Journal of the Town Planning Institute of Canada, Feb. 1922; vol. 1, no. 8, p. 8–9.)

Carver, T. N. The organization of a rural community. Reprint from Yearbook of U. S. Department of Agriculture for 1914. Washington, Govt. Printing Office, 1915. 58 p.

Social and economic aspects.

Collins, J. H. Motor transportation for rural districts. 32 p. illus. (U. S. Department of Agriculture, Bulletin no. 770, Jan. 29, 1919.)

Community Service, Inc. Rural and small community recreation, suggestions for utilizing the resources of rural communities; how it is being done. New York, Dec. 1920. 139 p.

Curtis, H. S. Play and recreation for the open country. Boston, Ginn & Co., 1914. 265 p. illus.

Gives suggestions for improvement of home and school grounds for recreation, and for rural playground equipment.

Dana, S. T. Forestry and community development. 1918. 35 p. illus. (U. S. Department of Agriculture, Forest Service, Bulletin no. 638.)

Development surveys: rural and financial. Part 1. Suggestions towards a national policy for agriculture, by M. Hardy; Part 2. A regional economy based on regional surveys, by J. Ross; Part 3. Mental reactions, by S. Branford. (Sociological Review, Manchester, Eng., Autumn, 1920; vol. 12, p. 82–101.)

Douglass, H. P. The little town, especially in its rural relationships. New York, Macmillan Co., 1919. 258 p. illus., maps, plans.

Flint, K. R. B., *see* **544.**

Friends of Our Native Landscape. First annual meeting of Wisconsin Branch of Friends of Our Native Landscape. (Park and Cemetery, July 1920; vol. 30, p. 148.)

For the improvement of the countryside.

Kimball, T. Some references on rural planning and development. (American City, June 1921; vol. 24, p. 584–586.)

With a list of organizations interested in promoting rural planning and improvement.

Manning, W. H. The Billerica town plan. (Landscape Architecture, Apr. 1913; vol. 3, p. 108–118. plans.)

An example of a village plan based on thorough surveys.

—— Town sites on government reclamation projects. (Landscape Architecture, Apr. 1914; vol. 4, p. 117–123. plans.)

Mobilizing the rural community. (American City, Town and County Edition, Dec. 1918; vol. 19, p. 458–462. charts.)

Based on a pamphlet issued by Mass. Agricultural College Extension Service.

Nason, W. C. Plans of rural community buildings. 38 p. illus., plans. (U. S. Dept. of Agriculture, Farmers' Bulletin no. 1173, Jan. 1921.)

—— Rural planning: the social aspects. (U. S. Dept. of Agriculture, Farmers' Bulletin no. 1325. July 1923. *In press.*)

Norton, S. V. Interrelationship of highway transport and back-to-the-farm movement. (Good Roads, May 19, 1920; vol. 17, p. 254–256, 258.)

Peake, H. The regrouping of rural population. (Town Planning Review, Mar. 1918; vol. 7, p. 243–250.)

Simonds, O. C. Landscape-gardening. New York, Macmillan Co., 1920. 338 p. illus., plans. (Rural Science Series.)

With especial reference to problems of rural districts.

U. S. Reclamation Service. Plan of rural community center, Accession no. 18533, 1920. 1 sheet.

Shows subdivision of town site.

Waugh, F. A. Country planning. (American City, Town and County Edition, July 1915; vol. 13, p. 14–15.)

—— Country planning. 13 p. (American Civic Association, Committee on Country Planning. Series II, no. 8, Jan. 1916.)

—— The opportunity of the country village. (House Beautiful, Oct. 1920; vol.48, p. 276–277, 312. illus.)

—— Rural improvement; the principles of civic art applied to rural conditions, including village improvement and the betterment of the open country. New York, Orange Judd Co., 1914. 265 p. illus.

The American Country Life Association (1849 Grand Central Terminal Bldg., New York City) includes country planning in its program and publishes annual papers and proceedings beginning 1919 and *Country Life Bulletin.*

LAND SETTLEMENT

6400 Adams, T. Proposed farm city in Pender County, North Carolina, a report to Farm Cities Coöperation, Jan. 1921. 23 p. (Farm Cities Corporation, Publication no. 2.)

See also the Corporation's descriptive booklet with plan by Mr. Nolen.

—— Rural planning. *See* **1293, 6300.**

Contains several chapters on land settlement.

Australian Town Planning Conference and Exhibition, 2d. Proceedings, 1918. *See* **40.**

Several papers on land settlement problems included.

Black, J. D. Theories of land settlement. (National Real Estate Journal, Mar. 1, 1920; vol. 21, no. 5, p. 5–9.)

California. Commission of Immigration and Housing. Report of large landholdings in Southern California. Sacramento, State Printing Office, 1919. 43 p.

——. **State Land Settlement Board.** Farm allotments and farm laborers' allotments, in the Durham State Land Settlement, Butte County, Calif. Sacramento, State Printing Office, 1910. 10 p. plan, table. — Rev ed., 1918.

Discussions of the Durham colony appeared in the *Engineering News-Record* for Dec. 5, 1918, and Jan. 30, 1919, including Dr. Mead's reply to critics. An account also appeared in *Survey*, Sept. 21, 1918, and the *Monthly Labor Review* (*U. S. Dept. of Labor*) for Oct. 1919.

Calkins, M. C. Colonization projects in Wisconsin. (Survey, Jan. 1, 1921; vol. 45, p. 480–485. illus.)

Ely, R. T. Private and public colonization. (National Real Estate Journal, Mar. 12, 1923; vol. 24, no. 6, p. 46–49.)

Faast, B. F. Rural planning and colonization. *Reprinted from* National Real Estate Journal, Aug. 1918. 15 p. illus., plans.

Paper before National Association of Real Estate Boards, St. Louis, June 1918.

Farm Cities Corporation of America. [Descriptive booklet.] 16 p. illus., plans.

Contains plan of proposed farm city, Pender Co., N. C., by John Nolen.

Harvard University, School of Landscape Architecture Library. Some references on land settlement. (Landscape Architecture, Jan. 1919; vol. 9, p. 110–112.)

Howe, F. C. The land and the soldier. New York, C. Scribner's Sons, 1919. 196 p.

MacRae, H. Vitalizing the nation and conserving human units through the development of agricultural communities. *Reprinted from* National Industries and the Federal Government, vol. 63 of the Annals of the American Academy of Political and Social Science. Philadelphia, 1916. 9p. (Publication no. 978.)

Mawson, T. H., *see* **5349.**

Mead, E. How California is helping people own farms and rural homes. 28 p. illus. (University of California, College of Agriculture, Agricultural Experiment Station, Circular no. 221, Aug. 1920.)

Describes the Durham, Calif., Colony.

—— Helping men own farms, a practical discussion of governmental aid in land settlement. New York, Macmillan Co., 1920. 228 p. illus.

The important American work on the subject.

—— Summary of soldier settlements in English-speaking countries. Washington, Govt. Printing Office, 1918. 28 p. (U. S. Department of the Interior. Reclamation Service.)

Land Settlement (cont.)

Soldier colonies. (Town Planning and Conservation of Life. July–Sept. 1920; vol. 6, p. 53–57. illus.)

U. S. Reclamation Service. Work and homes for our fighting men. Washington, Govt. Printing Office, 1919. 24 p.

These proposals were described in the *World's Work* for Nov. 1918. The Reclamation Service also published other pamphlets on soldier settlements.

Waller, A. G. Conditions in New Zealand: The land and settlement laws; Part III of article, Town Planning in New Zealand. (Journal of the American Institute of Architects, Dec. 1918; vol. 6, p. 573–576. tables.)

STATE PLANNING

6500 Comey, A. C. A state plan for Massachusetts. (City Plan, March 1915; vol. 1, no. 1, p. 5–8.)

Includes reference to state survey material collected by W. H. Manning for Panama-Pacific Exposition, 1915.

Woodruff, G. A state plan. Address delivered at a dinner tendered by the Illinois Commercial Secretaries' Association to the members of the Illinois Legislature at Springfield (Ill.) Mar. 30, 1921. 1 sheet.

State Highways

6510 U. S. Bureau of Public Roads. Report of a study of the California highway system by the U. S. Bureau of Public Roads to the California Highway Commission and Highway Engineer. 1920. 277 p. illus., maps, diagr.

Outstanding features reviewed in *Public Roads*, Apr. 1921. "The California study is the most comprehensive study of results obtained through the development of a State highway system that has yet been undertaken."

Eldridge, M. O., G. G. Clark, and **A. L. Luedke.** State highway management, control and procedure. (Public Roads, Aug. 1918–Feb. 1919; vol. 1, no. 4, p. 36–52, no. 5, p. 24–48, no. 6–8, p. 44–48, no. 9, p. 59–64, no. 10, p. 29–102. diagr.)

Hirst, A. R. Laying out, marking, and maintaining a state trunk highway system. (Public Roads, Jan. 1919; vol. 1, no. 9, p. 27–32.)

Experience of Wisconsin.

State Forests

6570 Crane, J. L. Reforestation progress in Pennsylvania. (American City, Oct. 1920; vol. 23, p. 403–406. illus., diagr.)

McDonald, A. New York's forest problem. (New York Forestry, quarterly magazine of New York State Forestry Association, first quarter, 1923; vol. 9, no. 1, p. 3–8. illus.)

Massachusetts Forestry Association. Why Massachusetts should have state forests. Boston, The Association, [1919]. 23 p. (Bulletin no. 125.)

See also earlier address by the Secretary, Mr. Reynolds.

Reynolds, H. A. State forests for Massachusetts. (Landscape Architecture, Apr. 1914; vol. 4, p. 107–116.)

Address before the American Society of Landscape Architects.

State Parks

6580 Caparn, H. A. State parks. Special Supplement to National Municipal Review, Nov. 1921; vol. 10, p. 581–600.

Connecticut State Park progress. (Park and Cemetery, July 1921; vol. 31, p. 137–139. illus.)

Summary of fourth biennial report of Connecticut State Park Commission, George A. Parker, Secretary.

Friends of Our Native Landscape. Proposed park areas in the state of Illinois, a report with recommendations. Chicago, Friends of Our Native Landscape, [1922]. 120 p. illus.

Preface by Jens Jensen.

Lieber, R. Industrial importance of state parks. (Park and Cemetery, July 1921; vol. 31, p. 133–137. illus.)

Address before National Park Conference, Des Moines, by the State Director of Conservation of Indiana, especially known for its Turkey Run State Park.

McFarland, J. H. State parks — their size and character. (Parks and Recreation, May–June 1922; vol. 5, p. 471–473.)

Address at National Conference on State Parks.

New York State Association. Committee on State Park Plan. A state park plan for New York, with a proposal for the new park bond issue. Dec. 1922. 83 p. illus., plans.

Pettis, C. R. New York state parks and reservations. Albany, State of New York Conservation Commission, 1919. 15 p. illus. (Recreation Circular 1.)

Welch, W. A. State and national parks. (Parks and Recreation, Sept.–Oct. 1922; vol. 6, p. 18–21.)

Address at Minneapolis convention, American Institute of Park Executives, by the Superintendent of the Palisades Interstate Park.

A permanent National Conference on State Parks is being formed following the 3d Conference at Turkey Run State Park, Indiana, May 1923, and its file of Proceedings are in course of publication. A regular department including this subject appears in *Parks and Recreation*, bi-monthly.

NATIONAL PLANNING

" The time has arrived in our national development when we must have a definite national program in the development of our great engineering problems. Our rail and water transport, our water supplies for irrigation, our reclamation, the provision of future fuel resources, the development and distribution of electrical power, all cry out for some broad-visioned national guidance. We must create a national engineering sense of provision for the nation as a whole." — *Herbert Hoover.*

6600 Manning, W. H. A national plan study brief. Special supplement to Landscape Architecture, July 1923. 24 p. maps.

The most important publication on the subject, being a brief digest of an unpublished study, with typical survey maps selected from a large number assembled or prepared by the author. Contains a foreword by the late Franklin K. Lane, Secretary of the Interior.

Abercrombie, P. The basis of reconstruction; the need for a regional survey of national resources. (Town Planning Review, Apr. 1918; vol. 7, p. 203–210.)

Ackerman, F. L. American reconstruction problems: nation planning. (Journal of the American Institute of Architects, Nov. 1918; vol. 6, p. 506–509.)

Address at the National Municipal League Conference, Rochester, Nov. 1918.

Also in National Municipal Review, Jan. 1919; vol. 8, p. 15–25.

Adams, T. Rural planning and development. *See* **6300.**

Hoover, Herbert. National policy on engineering problems. Presidential address before American Institute of Mining and Metallurgical Engineers, Minneapolis, Aug. 1920. (Engineering News-Record, Sept. 16, 1920; vol. 85, p. 544–545.)

Address from which the quotation at the head of the section was taken.

Kehr, C. Nation plan a basis for coördinated national development, preliminary discussion. Washington, 1920. 75 p.

Contains also pamphlet reprinted from *Journal of the American Institute of Architects,* Jan. 1920, Nation Plans, by the same author.

A **national housing** policy. — II. A national survey and garden cities. (Garden Cities and Town Planning, May 1921; vol. 11, p. 107–111.)

One of a series of articles in this volume on housing in national terms.

Swaelmen, L. van der. Le probleme rural et le probleme national. (*In* his Préliminaires d'art civique mis en relation avec le " cas clinique " de la Belgique, 1916, p. 89–138. illus.)

Towards a national survey. (Housing, issued by the British Ministry of Health, Nov. 22, 1920–Apr. 1921; vol. 2, nos. 36–44.)

A series of articles on the various regions into which the Kingdom was divided for purposes of the housing survey.

Among the publications of the national bureaus of the United States there should be mentioned especially those of the Bureau of Public Roads, Bureau of Soils, Geological Survey, Coast and Geodetic Survey, Reclamation Service, Forest Service, National Park Service, Bureau of Mines, etc. The publications of National Commissions such as the Federal Water Power Commission, National Waterways Commission, National Forest Reservation Commission (for protection of navigable streams), etc., should also be followed.

National Highways

6610 Bement, A. F. Lincoln Highway nears tenth birthday. (Good Roads, Mar. 21, 1923; vol. 64, p. 107–109, 116.)

An account of our leading national road by the vice-president of the Lincoln Highway Association.

Drowne, H. B. Planning of roads and road systems. (*In* Blanchard, A. H., *ed.*, American highway engineers' handbook, 1919, p. 331–362; with bibliography.)

State and national roads.

MacDonald, T. H. Our national highway problems. (Good Roads, Feb. 16, 1921; vol. 21, p. 97–99, 105–106.)

Paper at annual convention of American Road Builders' Association, 1921.

Mehren, E. J. A national highway policy and plan: a plea for the selection, construction, and maintenance by the Federal Government of a National highway system that shall fully embrace the entire country. (American City, Town and County Edition, Jan. 1919; vol. 20, p. 1–5.)

From an address before the Joint Highway Congress at Chicago, Dec. 11, 1918.

Also in Engineering News-Record, Dec. 19, 1918; vol. 81, p. 1112–1117.

Organized highway routes of national and interstate importance. (*In* Highways Green Book, 1921, p. 420–423.)

Shirley, H. G. The classification of highways: advantages of improved roads — necessity for classification of country's highways. (Good Roads, Sept. 24, 1919; vol. 18, p. 149–151. illus.)

A national scheme through coöperation of Federal Government, states, and counties. From paper before North Carolina Good Roads Association, 1919, by the Secretary of the Federal Highway Council.

Waugh, F. A. The public road — our great national park. (House Beautiful, June 1920; vol. 47, p. 508–509, 528. illus.)

Williams, S. M. National highway system and its relation to traffic and transportation. (*In* Proceedings of American Society for Municipal Improvements, 1919, p. 541–551; with discussion, p. 551–553.)

Railroads and Waterways

6620 Fawcett, C. B. Provinces of England. *See* **6100.**

Includes suggestions for national coördination of railroads and of water-supply.

Lay, C. D. The railroad problem *See* **2450.**

U. S. National Waterways Commission. Final report. Washington, Govt. Printing Office, 1912. 579 p. tables. (62d Congress 2d Session, Senate Document no. 469.)

Appendix IX: A comparison of American and European waterways with special reference to the factors influencing the development of water transportation, by E. O. Merchant, p. 471–579.

The articles on the inland waterways of New York State in the recent files of the bulletin of the Merchants' Association of New York, *Greater New York*, should be noted.

The Library of Congress Division of Bibliography prepared a list of references on inland waterways of the United States, Feb. 15, 1918 (unpublished).

CONSERVATION OF NATURAL RESOURCES

6640 The **foundations** of national prosperity; studies in the conservation of permanent national resources, by R. T. Ely, R. H. Hess, C. K. Leith, and T. N. Carver. New York, Macmillan Co., 1917. 378 p.

National Conservation Commission. Report, Feb. 1909, with accompanying papers. Ed. by Henry Gannett. Washington, Govt. Printing Office, 1909. 3 vols. (U. S. 60th Congress, 2d session. Senate Document no 676.)

Van Hise, C. R. The conservation of natural resources in the United States. New York, Macmillan Co., 1922. 413 p. plates, maps. — First impression, 1910.

Reclamation

6650 Bissell, C. A. Progress in national land reclamation in the United States. From the Smithsonian Report for 1919, p. 497–522. Washington, Govt. Printing Office, 1921.

Swanton, W. I. The U. S. Reclamation Service: progress of government irrigation projects in the West. (The Constructor, Nov. 1922; N. S. vol. 4, no. 11, p. 15–17. illus., map.)

Twenty years of reclamation June 17, 1902–June 17, 1922. (Reclamation Record, June, July 1922; vol. 13, p 127–137, 157–167. map, diagr.)

Also note in Engineering News-Record, Aug. 3, 1922, vol. 89, p. 172–173.

U. S. Reclamation Service. Irrigation projects of the U. S. Reclamation Service. National Reclamation of Arid Lands. Revised to Nov 1, 1920. Washington, Govt. Printing Office, 1920. 40 p. illus.

Weymouth, F. E. Twenty years work of the Reclamation Service. (Pacific Builder and Engineer, Jan. 26, 1923; vol. 29, no. 4, p. 12.)

Power Supply

6660 Federal water power projects up to Dec. 1921. Extract from annual report of Federal Water Power Commission. (Engineering News-Record, Jan. 5, 1920; vol. 88, p. 24–26.)

Table of hydro-electric power plants under way.

Great Britain. Ministry of Reconstruction. Coal Conservation Committee. Final report. London, H. M. Stationery Office, 1918. 89 p. maps. (Parliament Papers, Cd. 9084.)

A report on national development of electric power supply. *See also* **2926.**

Water-Supply

6665 National control of watersheds: possibility of state intervention: the annual meeting of the British Waterworks Association. (Municipal Journal, London, July 4, 1919; vol. 28, p. 659–660.)

National Forests

6670 Boerker, R. H. D. Our national forests. A short popular account of the work of the United States Forest Service on the national forests. New York, Macmillan Co., 1919. 238 p. illus., map.

Carhart, A. H. Landscape architecture and the one hundred fifty-two national forests. (Landscape Architecture, Jan. 1921; vol. 11, p. 57–62. illus.)

Greeley, W. B. Country planning and national forests. (National Municipal Review, Apr. 1921; vol. 10, p. 211–215.)

Pinchot, G. The economic significance of forestry. (North American Review, Feb. 1921; vol. 213, p. 157–167.)

A national policy.

U. S. Forest Service. [Annual reports and special circulars relating to individual forests.]

Waugh, F. A. Landscape engineering in the national forests. Washington, Govt. Printing Office, 1918. 38 p. maps, diagr. (U. S. Dept. of Agriculture, Forest Service.)

—— Recreation uses on the national forests. Washington, Govt. Printing Office, 1918. 43 p. illus. (U. S. Dept. of Agriculture, Forest Service.)

Zon, R. Forests and water in the light of scientific investigation. (*In* Final report of U. S. National Waterways Commission, 1912, p. 203–302.)

Contains extensive bibliography.

National Parks

6680 Champion, G. The Dominion parks: what Canada is doing for the benefit and enjoyment of her people. (Parks and Recreation, July 1921; vol. 4, p. 280–289. illus.)

McFarland, J. H. Parks and the public. (Parks and Recreation, Sept.–Oct. 1922; vol. 6, p. 12–14.)

From paper read before American Civic Association. Municipal, State and National parks correlated into an ideal system.

National Parks (cont.)

Mather, S. T. Progress in the development of the national parks. Washington, Govt. Printing Office, 1916. 39 p. map. (Department of the Interior, Office of the Secretary.)

Mische, E. T. National park attitude needs defining and national planning suggested. (Parks and Recreation, Jan.–Feb. 1922; vol. 5, p. 207–208.)

Accompanied by series of statements presenting all phases of the controversy over commercial utilization of the natural resources within park areas.

Muir, John. Our national parks. Boston, Houghton, Mifflin & Co., 1901. 382 p. illus., map.

The standard early work on the appreciation of the parks.

National Park Conference. Proceedings, 1911–1917. Published by the U. S. Dept. of the Interior. Washington, Govt. Printing Office, 1912–1917. 4 vols.

Meetings held in 1911, 1912, 1915, and 1917. *See also* Resolutions at Des Moines below.

Our national parks: a conference. Addresses and letters presented at meeting of American Society of Landscape Architects, Boston, Feb. 1916. (Landscape Architecture, Apr. 1916; vol 6, p. 101–123. illus., map.)

Contains statement by F. L. Olmsted on the distinction between national parks and national forests.

Punchard, C. P. "Hands off the national parks." (Landscape Architecture, Jan. 1921; vol. 11, p. 53–57.)

Turner, A. M. First principles — [initial article] Department of National, State, and Provincial parks]. (Parks and Recreation, Jan.–Feb. 1922; vol. 5, p. 291–295.)

A regular feature of the magazine.

[**Resolutions** at the] National Parks Conference, Des Moines, Jan. 1921. (National Municipal Review, Mar. 1921; vol. 10, p. 200–201.)

Yard, R. S. The book of the national parks. New York, C. Scribner's Sons, 1919. 420 p. illus., maps.

By the Secretary of the National Parks Association.

SUBJECT INDEX TO BIBLIOGRAPHY

References are to classification numbers, which will be found in sequential order, following the outline in Pray and Kimball, *City Planning; a Comprehensive Analysis.*

A

Acre, Number of houses to, *see* Zoning, 1600; Density of development, Residental, 1677.
"Adickes, Lex," *see* Replotting, 728.
Administration, 1500 ff.
Administrative agencies, Legislation creating, 714.
Administrative centers, 1627.
Administrative surveys, 824. *See also* Municipal government.
Advertising, Outdoor, *see* Billboards, 3880.
Advertising columns, etc., *see* Street furniture, 2290.
Advisers, City planning, *see* City planning — Practitioners, 875.
Aerial surveys, 839.
Aerial transportation terminals, 2795.
Agricultural colonies, *see* Rural planning, 6300 ff.
Agricultural districts and belts, *see* Districts, Agricultural, 1715; Garden cities, 5350.
Air, in cities, 1447.
Airplanes, *see* Aerial surveys; Aviation.
Alleys, 2242.
Allotment gardens, *see* Districts, Agricultural, 1715; Garden cities, 5350.
Ancient history of city planning, 215.
Apartment houses, 3641. *See also* Housing; Zoning.
Approaches, *see* City entrances, 1745.
Appropriations, Municipal, for city planning, 1595. *See also* p. 51 f.
Arcades, 2161.
Arches, Monumental, 3830.
Architects, in city planning, 875.
Art, Civic, *see* City Planning — Esthetic considerations, 1235 ff.; Street furniture, 2290 ff.; Public buildings, 3563; Civic centers, 3700; Decorative structures, Civic, 3820 ff.; Parks, 4000 ff.; Planting, 4800 ff.; etc.
Art commissions, 1538.
Assessment, 1580.
Athletic fields, *see* Playgrounds, 4300 ff.
Automobile camping grounds, *see* Camps, Tourist, 4460.
Automobile service stations, 3685.
Automobiles, *see* Motor transportation as affecting street plans, 2058; Street traffic, 2076; Parking, 2076.4; Park roads, 2212.
Avenues, *see* Streets, 2050 ff.
Aviation, effect on city appearance, 1246.
Aviation landing fields, 2795.

B

Bandstands, 4137.
Bathing beaches, *see* Waterfronts, Recreational, 4370 ff.
Baths, Public, 3580.
Beauty, in cities, *see* City planning — Esthetic considerations, 1235 ff.
Belt line railroads, *see* Railroads, 2450 ff.
Belts, Agricultural or Forest, *see* Districts, Agricultural, 1715; Forests, Municipal, 4160.
Benefit assessments, *see* Assessment, 1580.
Bibliography, 0.
Billboards, 3880.
Biography of city planners, 205.
Block, Houses in, *see* Houses, Row, 3639.
Block interiors, 3089.
Blocks and lots, 3000 ff. *See also* Housing; Land subdivision; Platting; Zoning.
Bond issues, *see* City planning — Financial considerations, 1570 ff.
Botanical gardens, 4265.
Boulevards, 2205.
Boundaries, Lot, 3304.
Boundary areas of city, 1745. *See also* Regional planning, 6100.
Bridges, 3740.
Bridle paths, 2213.
Building groups, 3700 ff.

Building laws, 3460. *See also* Buildings — Height; Housing; Setbacks; Zoning.
Building lines, *see* Setbacks, 2073.
Building restrictions, *see* Setbacks, 2073; Restrictions, Real property, 3020; Building laws, 3460.
Buildings, in cities, 3440 ff.
— Esthetic aspects, 3455.
— Form, 3475.
— Height, 3480.
— Legislation, *see* Building laws, 3460.
— Orientation, 3470.
— Plant decoration, 4910.
— Relation to lot area, *see* Form, 3475; Zoning, 1600.
— Relation to streets, *see* Setbacks, 2073.
Buildings, in parks, *see* Public buildings, 3563; Parks — Buildings, 4055.
Buildings, Commercial, 3600.
Buildings, Industrial, 3595.
Buildings, Public, 3563.
Buildings, Recreation, *see* Recreation centers, 3575; Parks — Buildings, 4055.
Burned districts, 1617.
Business buildings, 3600.
Business districts, 1630 f.
Business squares, 2233.
Business streets (local), 2230.
Busses, *see* Motor busses, 2358.

C

Campaigns, Publicity, for city planning, 540 ff.
Camps, Labor, 5323.
Camps, Military, 5311.
Camps, Tourist, 4460.
Canals, 2580.
Cantonments, 5311.
Capital cities, 5305.
Car tracks, *see* Street-railroads, 2350 ff.
Cemeteries, 4480.
Central heating, *see* Heating — Central station systems, 2902.
Chambers of commerce, promoting city planning, 515.
Changes in character of districts, *see* Districts, Blighted, 1613.
Charges, Professional, *see* City planning — Practitioners, 878.
Churches, 3590.
Cities — Growth, 1424.
— Types, 5200 ff.
Cities, Ancient, 215.
Cities, Capital, 5305.
Cities, Future, 1290.
Cities, Garden, 5350.
Cities, Ideal, 5550.
Cities, Industrial, 5320. *See also* Districts, Industrial; Districts, Residential, Low cost; Housing, Industrial.
Cities, Large, 5620.
Cities, Mediaeval, 225.
Cities, Mining, 5322.
Cities, New, *see* Decentralization, Residential and industrial, 1426; Garden cities, 5350; Cities, Ideal, 5550.
Cities, Satellite, *see* Decentralization, 1426.
Cities, Small, 5610. *See also* Villages.
City boundaries, 1745.
City entrances, 1745. *See also* Railroads; Waterfronts.
City forestry, *see* Planting, in cities, 4800 ff.
City gates, *see* City planning — History, 210 ff.
City halls, *see* Public buildings, 3563 ff.
City managers, *see* Municipal government, 1520.
City planning (general), 250.
— Addresses, lectures, etc., 265 f.; 540 ff.
— Administration, 1500 ff.
— Bibliography, 0.
— Biography, 205.
— Charges, *see* Practitioners, 878.
— Classification, 254.
— Commissions, 1535; Legislation creating, 714.
— Composition of plan, 1200 ff.
— Congresses, Conferences, 40.
— Construction and maintenance, *see* Municipal engineering, 860.
— Consultants, *see* Practitioners, 875.
— Cost of plans, 859. *See also* City planning — Financial considerations.
— Data, 1300. *See also* Surveys.
— Definition, 310.
— Economic considerations, 1225; 1550ff.
— Educational campaigns, 540.
— Encyclopedias, 190.
— Essays, *see* — Addresses, etc., 265 f.; 540 ff.
— Esthetic considerations, 1235 ff.

City planning—Ethical considerations, 1210.
— Examinations (professional), *see* — Practitioners, Examinations, 879.
— Exhibitions, 40 ff.
— Experts, *see* — Practitioners, 875.
— Financial considerations, 1570.
— Future considerations, 1290. *See also* City planning—Social considerations; Decentralization, Residential and industrial.
— Governmental control, 1521 ff.
— Historic considerations, 1270 ff.
— History, 210 ff.
— Hygenic considerations, *see* Public health, 1445 ff.
— In the United States, *see* p. 24 f., p. 43 ff.
— In foreign countries, *see* p. 26 ff.
— Lectures, 265; 540 ff.
— Legislation, 700 ff. *See also* Building laws; Eminent domain; Excess condemnation; Parks — Legislation; Platting — Legislation; Setbacks; Streets — Legislation; Zoning — Legislation.
— Name, 300.
— Periodicals, 2 ff. *See also* p. 20 ff.
— Physical considerations, 1320.
— Practitioners, 322; 875 ff.
— Programs for execution, 858.
— Publicity, 540 ff.
— Replanning, 1200 ff.; 1613. *See also* Reconstruction, after war.
— Reports, 852.
— Representation of city plans, 850 ff.
— Social considerations, 1210.
— Societies, 21 ff. *See also* p. 17 ff.
— State bureaus, 1523.
— Study and teaching, 900 ff. *See also* p. 47 ff.
— Study tours, 947.
— Technical procedure, 800 ff.
— Types of plans, 5200 ff.
City planning movement, 500 ff.
City surveys, *see* Surveys, Civic, 815; 1300.
City walls, *see* City planning — History, 210 ff.
Civic art, *see* Cross-references under Art, Civic.
Civic centers, 1627; 3700 ff. *See also* Public buildings.
Civic design, *see* City planning — Composition of plan, 1200 ff.
Civic improvement, *see* City planning movement, 500 ff.
Civic surveys, 815; 1300 ff.
Classification of city planning, 254.
Climate, 1330 ff.
Clock monuments, 3855.
Colleges, *see* City planning — Study and teaching, 900 ff.; Universities, relation to city plan, 3722.
Colonnades, Street, *see* Arcades, 2161.
Color, in cities, 1256.
Columns, Monumental, 3830.
Comfort stations, *see* Public comfort stations, 3677.
Commercial buildings, 3600.
Commercial districts, *see* Districts, Business, 1630.
Commercial waterfronts, 2550 ff.
Commissions, *see* City planning — Commissions, 714; 1535; Art commissions, 1538.
Commons, 4250.
Community centers, 1627. *See also* Recreation centers.
Competitions, 880.
Composition of city plans, 1200 ff.
Condemnation proceedings, *see* Eminent domain, 722.
Conduits, *see* Subsurface utilities, 2850 ff.
Conferences on city planning, 40. *See also* City planning — Societies.
Congestion of population, 1425.
Congestion of traffic, *see* Street traffic, 2076.
Conservation of natural resources, 6640.
Construction, Municipal, *see* Municipal engineering, 860.
Consultants on city planning, *see* City planning — Practitioners, 875.
Convenience stations, *see* Public comfort stations, 3677.
Coöperation of practitioners, *see* City planning — Practitioners, 875.
Coöperative or co-partnership housing, 1434.
Cost and standard of living, 1428.
Cost of city plans, 859; 1595. *See also* p. 51 f.
Cottages, *see* Houses, Low-cost, 3633.

Country planning, *see* Rural planning, 6300; National planning, 6600.
County planning, *see* Regional planning, 6100.
Courses, Professional, in city planning, *see* City planning — Study and teaching, 900 ff.
Court decisions, on city planning and zoning, *see* City planning — Legislation, 700 ff.
Courts, *see* Squares, Residential, 2233; Block interiors, 3089; Buildings —Form, 3475.
Crossings, *see* Streets — Crossings, 2128; Railroads — Crossings, 2510.

D

Data for city planning, 1300 ff. *See also* Surveys, Civic.
Decentralization, Residential and industrial, 1426. *See also* Districts, Industrial; Garden cities.
Decorative structures, Civic, 3830 ff.
Defensive works in city plans, *see* City planning — History, 210 ff.
Density of development, Residential, 1677.
Design in city planning, *see* City planning — Technical procedure, 800 ff.; City planning — Composition of plan, 1200.
Destroyed cities (by war), *see* Reconstruction, after war, 1293.
Districting, *see* Zoning, 765; 1600.
Districts, Agricultural, 1715.
Districts, Blighted, 1613.
Districts, Business, 1630. *See also* Buildings — Height; Street traffic.
Districts, Industrial, 1650. *See also* Cities, Industrial; Garden cities; Surveys, Industrial.
Districts, Metropolitan, 1525.
Districts, Racial, 1619.
Districts, Residential, 1675 ff. *See also* Land subdivision.
Districts, Residential, Suburban, 1685.
Districts, Shopping, *see* Districts, Business, 1630; Shopping centers, 1631.
Districts, Tenement, 1703.
Docks, *see* Waterfronts, Commercial, 2550ff.
Drainage, *see* Public health, 1452; Subsurface utilities, 2880 ff.
Driveways, across sidewalks, 2253.
Dust prevention, 1450. *See also* Pavements.

E

Economic considerations in city planning, 1225; 1550 ff.
Economic surveys, 826.
Educational buildings, *see* Schools, Public, 3570; Universities, 3722.
Educational campaigns for city planning, *see* City planning — Publicity, 540.
Electric power supply, 2926; 6660.
Electric service distribution, 2915.
Electric wires, 2915.
Electrification of railroads, 2457.
Elements of city plans, 2000 ff.
Elevated railroads, *see* Rapid transit, 2350 ff.
Eminent domain, 722 ff.
Encroachments on streets, 2159.
Encyclopedias, 190.
Engineering, Municipal, 860.
Engineers, in city planning, 875.
Entrances, City, 1745.
Essays (brief statements) on city planning, 270.
Estate development, *see* Land subdivision, 3380.
Esthetic considerations in city planning, 1235 ff.
Examinations in city planning *see* City planning — Practitioners, 879.
Excess condemnation, 724.
Exhibitions of city planning, 40 ff.; 540 ff.
Experts, City planning, *see* City planning —Practitioners, 875.
Expositions, 3724.
Expropriation, *see* Eminent domain, 722.
"Extension work" in civic improvement, 546.
Extensions of cities, *see* Platting, 1800.

F

Fair grounds, 4295.
Federal bureaus for promoting city planning, 1522.
Finance, City planning, *see* City planning — Financial considerations, 1570 ff.
Fire prevention, 1478.

Fire stations, *see* Public buildings, 3563 ff.
Fires, Replanning after, 1617.
Flagstaffs, 3857.
Flats, *see* Houses, Apartment, 3641.
Flood protection, 1454.
Food supply and distribution, 1443.
Footways, 2250 ff. *See also* Arcades.
Forests, Municipal, 4160.
Forests, National, 6670.
Forests, State, 6570.
Fountains, Civic, 3845.
Free ports, 2729.
Freight terminals, 2495.
Furniture, Street and park, *see* Street furniture, 2290 ff.; Park furniture, 4055.
Future of cities, 1290.

G

Galleries, Pipe, *see* Subsurface utilities, 2850 ff.
Galleries, Street, *see* Arcades, 2161.
Garages, Public, location, *see* Zoning, 765; 1600.
Garbage disposal, *see* Waste disposal, 1460 ff.
Garden cities, 5350.
Garden squares, 4250.
Garden suburbs, *see* Districts, Residential, Suburban, 1685; Garden cities, 5350.
Garden villages, *see* Garden cities, 5350; Villages, 5605.
Gardens, in cities, 4900 ff.
Gardens, Allotment, *see* Districts, Agricultural, 1715; Garden cities, 5350.
Gardens, Botanical, 4265.
Gardens, School, 4907.
Gardens, Vacant-lot, 4905.
Gardens, Zoölogical, 4270.
Gas distribution, *see* Subsurface utilities, 2850 ff.
Gasoline stations, *see* Automobile service stations, 3485.
Gates, City, *see* City planning — History, 210 ff.
Golf courses, Municipal, 4369.
Governmental control of city planning, 1521 ff.
Governmental housing, 1431.
Grade crossings, *see* Railroads — Crossings, 2510.

H

Harbor development, *see* Waterfronts, Commercial, 2550 ff.
Health, Public, 1445 ff.
Health resorts, 5333.
Health surveys, 822.
Heating — Central station systems, 2902.
Height of buildings, 3480.
Highways, National, 6610.
Highways, State, 6510.
Hills, in cities, 1356.
Hillside development, 3065. *See also* Steep gradients.
Historic considerations in city planning, 1270 ff. *See also* Reconstruction, after war.
History of city planning, 210 ff.
Home ownership, 1434.9.
Hospitals, 3585.
Houses, number to acre, *see* Zoning, 1600; Density of development, Residential, 1677.
— Types, 3633 ff. *See also* Housing; Zoning.
Houses, Apartment, 3641.
Houses, Low cost (including detached houses), 3633.
Houses, Row, 3639.
Houses, Tenement, 3644.
Housing, 1430 ff. *See also* Houses.
— Technical procedure, 870.
Housing, Coöperative, 1434.
Housing, Co-partnership, *see* Housing, Co-operative, 1434.
Housing, Employers', 1433.
Housing, Governmental, 1431.
Housing, Industrial, *see* Housing, 1430; Districts, Residential, Low cost, 1697; Cities, Industrial, 5320.
Housing, Municipal, 1432.
Housing surveys, 822.
Hygienic considerations in city planning, *see* Public health, 1445 ff.

I

Ideal cities, 5550.
Improvement, Civic, *see* City planning movement, 500 ff.
Individuality of cities, 1274.
Industrial cities, 5320.

Industrial conditions, 1437 f.
Industrial decentralization, *see* Decentralization, Residential and industrial, 1426; Districts, Industrial, 1650.
Industrial districts, 1650.
Industrial housing, *see* Housing, 1430; etc.
Industrial surveys, 826; 1559.
Industrial terminals, *see* Districts, Industrial, 1650; Railroads — Terminals, 2450 ff.
Industrial villages, *see* Districts, Residential, Low-cost, 1697; Cities, Industrial, 5320.
Inland waterways, 2580; 6620.
Interurban street-railroads, *see* Street-railroads, 2350 ff.
Isles of safety, 2128. *See also* Street furniture.

J

Jitneys, *see* Motor busses, 2358.

L

Labor camps, 5323.
Labor turnover, 1437.
Land — Condemnation, *see* Eminent domain, 722.
— Redistribution, *see* Replotting, 728.
— Use, 1563. *See also* Zoning.
Land, Rural, *see* Rural planning, 6300 ff.
Land, Urban, 1563 ff.
Land restrictions, *see* Restrictions, Real property, 3020.
Land settlement, 6400.
Land subdivision, 3000 ff. *See also* Platting.
Land values, 1563 ff.
Landscape architects, in city planning, 875.
Landscape improvement, *see* Billboards, 3880; Public open spaces, 4000 ff.; Planting, in cities, 4800 ff.; Rural planning, 6300.
Landscape parks and reservations, 4100 ff.
Lantern slides, *see* City planning — Publicity, 540 ff.; and p. 38 f.
Law of city planning, *see* City planning — Legislation, 700 ff.
Laws, relating to city planning, *see* City planning — Legislation, 700 ff.
Lawyers, in city planning, 875.
Lectures on city planning, *see* City planning — Addresses, lectures, etc., 270; City planning — Publicity, 540 ff.
Legal surveys, 824; 1505.
Legislation, 700 ff. *See also* subhead legislation under Streets, Parks, etc.
Levees, *see* Flood protection, 1454.
Light, in cities, *see* Buildings — Orientation, 3470.
Lighting, *see* Street lighting, 2310.
Living, Cost and standard of, 1428.
Living conditions, *see* Housing, 1430 ff.
Lot boundaries, 3304.
Lot planting, *see* Yard improvement, 4900 ff.
Lots, *see* Blocks and lots, 3000 ff.

M

Manufacturing districts, *see* Districts, Industrial, 1650.
Maps, Aerial, 839.
Maps, City (official), *see* Platting — Legislation, 770.
Maps, Data, 834.
Maps, Relief, 836.
Maps, Topographical, 820.
Market squares, 2234.
Markets, 1443.
Mediaeval history of city planning, 225.
Memorials, *see* War memorials, 1292; Monuments, Civic, 3830.
Metropolitan districts, 1525. *See also* Regional planning.
Military camps, 5311.
Military considerations in city planning, *see* City planning — History, 210 ff.
Mining cities, 5322.
Model cities, *see* Garden cities, 5350; Cities, Ideal, 5550.
Models (of cities or city plans), 836.
Monumental squares, 3700.
Monuments, Civic, 3830.
Monuments, Historic — Preservation, 1276
Mosquito prevention, 1452.
Motor busses, 2358.
Motor traffic, *see* Street traffic, 2076.
Motor transportation as affecting street plans, 2058.
Motor vehicles, *see* Street traffic, 2076.

Moving of cities, *see* Reconstruction, after war, 1293.
Moving pictures (in publicity campaigns), 543.
Municipal administration, 1520.
Municipal art, *see* Cross-references under Art, Civic.
Municipal engineering, 860. *See also* Bridges; Sewerage; Streets; Water-supply; etc.
Municipal engineers, in city planning, 875.
Municipal finance, 1570 ff.
Municipal forests, 4160.
Municipal government, 1520.
Municipal housing, 1432.

N

Names, Place, 1279.
Names, Street, 2056.
National bureaus for promoting city planning, 1522.
National forests, 6670.
National highways, 6610.
National parks, 6680.
National planning, 6600 ff.
National roads, *see* National highways, 6610.
Natural resources, *see* Surveys, Civic, 1300 ff; National planning, 6600 ff.
Neighborhood centers, *see* Community centers, 1627; Recreation centers, 3575; 4318.
Neighborhood parks, 4250.
New cities, *see* Decentralization, 1426; Garden cities, 5350; Cities, Ideal, 5550.
New districts, *see* Platting, 1800; Districts, Residential, Suburban, 1685; Regional planning, 6100.
Noise prevention, 1451.
Nuisances, 1449 ff.

O

Open spaces, Public, 4000 ff. *See also* Parks, National; Parks, State.
Organizations promoting city planning, *see* City planning movement, 500 ff.; and p. 17 ff.
Orientation, of streets, buildings, etc., *see* Buildings — Orientation, 3470.
Outdoor recreation areas, *see* Public open spaces, 4000 ff.
Overhead wires — Removal, 2922.

P

Park furniture, 4055.
Park systems, 4040.
Parking of automobiles, 2076.4.
Parking of streets, *see* Streets — Parking, 2116; Parkways, 2205; Streets — Planting, 4875 ff.
Parks, 4000 ff. *See also* Parks, National; Parks, State.
— Administration, 4052.
— Buildings, 4055.
— Concessions, 4057.
— Construction and maintenance, 4058.
— Design, 4127.
— Effect on land values, 4016.
— Encroachments, *see* Public buildings, 3563.
— Finance, *see* City planning — Financial considerations, 1570 ff.
— Legislation, 4050.
— Periodicals, *see* p. 20 ff.
— Societies, *see* p. 17 ff.
Parks, in block interiors, *see* Block interiors, 3089.
Parks, County, *see* Park systems, 4040; Regional planning, 6100.
Parks, Landscape, 4100 ff.
Parks, Memorial, *see* War memorials, 1293.
Parks, Metropolitan, *see* Park systems, 4040; Regional planning, 6100.
Parks, Municipal, *see* Parks, 4000 ff.
Parks, National, 6680.
Parks, Neighborhood, 4250. *See also* Recreation centers.
Parks, Small, *see* Parks, Neighborhood, 4250.
Parks, State, 6580.
Parks, Water, *see* Waterfronts, Recreational, 4370 ff.
Parkways, 2205. *See also* Parks.
Pavements, 2120.
Periodicals on city planning, 2 ff. *See also* p. 20 ff.
Photographic maps, Aerial, 839.
Piers, Recreation, *see* Waterfronts, Recreational, 4370 ff.

Piers, Waterfront, *see* Waterfronts, Commercial, 2550 ff.
Pipes and pipe subways, *see* Subsurface utilities, 2850 ff.
Place names, 1279.
"Places," *see* Streets, Residential, 2238.
Plans, City, *see* City planning.
Planting, in cities, 4800 ff. *See also* Parks.
Platting, 1800. *See also* Land subdivision.
— Legislation, 770.
Playgrounds, 4300 ff.
— Equipment, 4315.
Playgrounds, in block interiors, *see* Block interiors, 3089.
Playgrounds, School, 4319.
Plazas, *see* Squares, 4400 ff.
Pole lines, *see* Street-railroads, 2350 ff; Wires, 2850 ff.
Pools, Public swimming, 4347.
Population, 1400 ff.
Ports, *see* Waterfronts, Commercial, 2550 ff.
Ports, Free, 2729.
Power supply, Electric, 2926; 6660.
Practice, Professional, of city planning, *see* City planning — Practitioners, 800 ff.
Preservation of historic features in cities, *see* City planning — Historic considerations, 1270 ff.
Preservation of scenery, *see* Parks and reservations, 4000 ff.; Parks, State, 6580; Parks, National, 6680.
Professions engaged in city planning, *see* City planning — Practitioners, 875.
Promenades, *see* Boulevards, 2205; Squares, Garden, 4250; Waterfronts, Recreational, 4370.
Property, Private, regulation, *see* Zoning, 765; 1600.
Property, Public, acquisition, 722 ff.
Property restrictions, *see* Restrictions, Real property, 3020.
Public baths, 3580.
Public buildings, 3563. *See also* Civic centers.
Public comfort stations, 3677.
Public health, 1445 ff.
Public open spaces, 4000 ff.
Public recreation, 1495.
Public reservations, 4000 ff.
Public safety, 1445 ff.
Public schools, 3570.
— Teaching of city planning in, 548.
Public utility corporations, 1541.
Public utility societies (for housing), *see* Housing, Coöperative, 1434.
Public works, *see* Elements of city plans, 2000 ff.
Publicity campaigns, 540 ff.

R

Racial districts, 1619.
Railroads, 2450 ff. *See also* National planning.
— Crossings, including grade separation, 2510.
— Electrification, 2457.
— Grounds, including planting, 2460; 2487.
— Station squares, 2486.
— Stations, 2480 ff.
— Terminals, 2450 ff.
Railroads, Elevated, *see* Rapid transit, 2350 ff.
Railroads, Street, *see* Rapid transit, 2350 ff.
Rain and rainfall, 1334.
Rapid transit, 2350 ff.
Real property, 1563 ff.
— Restrictions, 3020.
Realtors, in city planning, 875.
Reclamation of land, National, 6650.
Reconstruction, after war, 1293.
Recreation, Public, 1495. *See also* Parks; Playgrounds; Recreation centers; Water fronts, Recreational.
Recreation centers, 3575; 4318.
Recreation surveys, 822.
Recreational waterfronts, 4370 ff.
Redistribution of land, *see* Replotting, 728.
Refuse disposal, *see* Waste disposal, 1460 ff.
Regional planning, 6100. *See also* Metropolitan districts; Rural planning.
Regional planning agencies, 1524.
Regional surveys, *see* Surveys, Civic, 815; 1300; Regional planning, 6100.
Relief models, 836.
Relocation of cities, *see* Reconstruction, after war, 1293.
Replanning, *see* Replotting, 728; Reconstruction, after war, 1293; City planning — Replanning, 1200 ff.; 1613.

Replotting, 728.
Reports, City planning, 852.
Representation of city plans, 850 ff.
Reservations, Public, 4000 ff.
Reservoirs, 4168.
Residential blocks and lots, 3380 ff.
Residential cities, *see* Garden cities, 5350; etc.
Residential decentralization, *see* Decentralization, Residential and industrial, 1426; Districts, Residential, 1675 ff.
Residential districts, 1675 ff.
Residential squares, 2238.
Residential streets, 2235.
Resorts, Health, 5333.
Restrictions, Real property, 3020. *See also* Building laws; Zoning.
Rivers, *see* Waterfronts, Commercial, 2580; Waterfronts, Recreational, 4370 ff.
Road signs, 2292.5. *See also* Street nameplates.
Roads, *see* Streets, 2050 ff.
Roads, National, 6610.
Roads, State, 6510.
Roadside planting, *see* Streets — Planting, 4875 ff.
Rubbish disposal, *see* Waste disposal, 1460 ff.
Rural planning, 6300 ff.

S

Safety, Public, 1445.
Safety isles and zones, 2128. *See also* Street furniture; Street traffic.
Sanitary surveys, 822.
Sanitation, *see* Public health, 1445 ff.
Satellite towns, *see* Decentralization, Residential and industrial, 1426.
Scenic reservations, *see* Landscape parks and reservations, 4100; Parks, National, 6680.
School gardens, 4907.
School playgrounds, 4319.
Schools, Professional, of city planning, *see* City planning — Study and teaching, 900 ff.
Schools, Public, study and teaching of city planning in, 548.
— Buildings, 3570.
— Grounds, *see* Playgrounds, School, 4319.
Seashore reservations, *see* Waterfronts, Recreational, 4370 ff.
Service stations, Automobile, 3685.
Setbacks, 2073.
Sewage treatment, *see* Waste disposal, 1460 ff.; Sewerage, 2890.
Sewerage, 2890. *See also* Public health.
Shopping centers, 1631.
Shops, 3600.
Shore parks, *see* Waterfronts, Recreational, 4370 ff.
Sidewalks, 2252.
— Encroachments, *see* Streets — Encroachments, 2159.
Signs, Advertising, *see* Billboards, 3880.
Signs, Roads, 2292.5.
Single tax, 1568.
Site-planning, *see* Districts, Residential, 1675 ff.; Land subdivision, 3380 ff.
Skylines, City, *see* City planning — Esthetic considerations, 1235 ff.; Buildings, in cities, 3455.
Skyscrapers, 3489.
Slums, 1704. *See also* Tenement-houses; Zone condemnation.
Small cities, 5610.
Smoke prevention, 1449.
Snow and snowfall, *see* Climate, 1330 ff.
Snow removal, *see* Waste disposal, 1460 ff.
Social centers, *see* Community centers, 1627; Recreation centers, 4318.
Social considerations in city planning, 1210; 1400 ff.
Social surveys, 822; 1400 ff.
Societies, City planning, 21 ff. *See also* p. 17 ff.
Soil surveys, 1320.
Specialists in city planning, *see* City planning — Practitioners, 875.
Sports, Areas for, *see* Playgrounds, 4300 ff.
Squares (general), 4255.
Squares, Business, 2233.
Squares, Garden, 4250.
Squares, Market, 2234.
Squares, Monumental, 3700.
Squares, Residential, 2238.
Squares, Station, 2486.
Squares, Traffic, 2197. *See also* Street traffic; Streets —Intersection.
Stadiums, 4360.

Standard of living, *see* Cost and standard of living, 1428.
State bureaus of city planning, 1523.
State forests, 6570.
State highways, 6510.
State housing, *see* Housing, Governmental, 1431.
State parks, 6580.
State planning, 6500 ff.
State roads, *see* State highways, 6510.
Stations, Railroad, 2480 ff.
Statistics, of cities, 1400.
Statuary, Civic, 3840. *See also* Art commissions.
Steep gradients, 2103. *See also* Hillside development.
Steps, 2256.
Street cleaning, *see* Waste disposal, 1460 ff.
Street decoration for festivals, etc., 2320.
Street furniture, 2290 ff. *See also* Decorative structures, Civic; Park furniture.
Street lighting, 2310.
Street nameplates, 2292.
Street names, 2056.
Street railroads, *see* Rapid transit, 2350 ff.
Street systems, *see* Platting, 1800; Streets, 2050 ff.
Street traffic, 2076.
Street traffic censuses, 2076.1.
Street traffic regulation, 2076.3. *See also* Safety isles and zones.
Street trees, 4885.
Streets, 2050 ff.
— Cross-section, width, etc., 2105.
— Crossings, 2128 f.
— Design, 2080 ff.
— Encroachments, 2159.
— Gradient, 2100 f.
— Intersection, 2135. *See also* Street traffic.
— Legislation, 2070. *See also* Eminent domain.
— Names, 2056.
— Numbering, 2056.5.
— Orientation, *see* Buildings — Orientation, 3470.
— Parking, 2116. *See also* Parkways; Streets — Planting.
— Planting, 4875 ff.
Streets — Widening, 2070. *See also* Eminent domain.
— Width, 2105.
Streets, Business (local), 2230.
Streets, Covered, *see* Arcades, 2161.
Streets, Hillside 2103. *See also* Hillside development.
Streets, Major, *see* Streets, Traffic, 2170.
Streets, Residential, 2235.
Streets, Steep, *see* Steep gradients, 2103; Hillside development, 3065.
Streets, Traffic, 2170.
Streets, Two-level, 2119.
Structures, 3415 ff. *See also* Streets; etc.
Study of city planning in professional schools, 900 ff.; in public schools, 548.
Subdivision of land, *see* Land subdivision, 3000 ff.
Subsurface utilities, 2850 ff. *See also* Sewerage; Water supply; etc.
Suburbs, *see* Decentralization, Residential and industrial, 1426; Districts, Industrial, 1650; Districts, Residential, Suburban, 1685, Garden cities, 5350.
Subways, *see* Rapid transit, 2350 ff.
Subways, Pipe, *see* Subsurface utilities, 2850 ff.
Sunlight, *see* Buildings — Orientation, 3470.
Surveys, Administrative, 824. *See also* Municipal government.
Surveys, Aerial, 839.
Surveys, Civic, 1300 ff.
— Technical procedure, 815 ff.
Surveys, Economic, 826.
Surveys, Health, 822.
Surveys, Housing, 822.
Surveys, Industrial, 826; 1559.
Surveys, Legal, 824; 1500 ff.
Surveys, National, 6600 ff.
Surveys, Physical, 820; 1300 ff.
Surveys, Recreation, 822; 1495.
Surveys, Regional, 6100.
Surveys, Rural, 6300.
Surveys, Sanitary, 822.
Surveys, Social, 822; 1400 ff.
Surveys, Soil, 1320.
Surveys, State, 6500 ff.
Surveys, Topographical, 820.
Surveys, Tree, *see* Trees, Street, 4885.
Swimming pools, Public, 4347.

T

Taxation, 1568.
Teaching of city planning in professional schools, 900 ff.; in public schools, 548.
Technical procedure in city planning, 800 ff.
Tenement districts, 1703.
Tenement houses, 3644.
Tennis courts, Municipal, 4369.
Terminals, *see* Markets, 1443; Street-railroads — Terminals, 2420; Railroads — Terminals, 2450 ff.; Waterfronts, Commercial, 2550 ff.; Aerial transportation terminals, 2795.
Terminals, Industrial, *see* Districts, Industrial, 1650.
Terms, Use of, 300.
Theatres, Outdoor, 4055.
Theory of city planning, 1200 ff.
Thoroughfares, *see* Streets, Traffic, 2170.
Topographical considerations, in city planning, 1320 ff.
Topographical maps, 820.
Tours for study of city planning, 947.
Town planning, *see* City planning.
Towns, *see* Cities, Villages.
Township planning, *see* Rural planning, 6300.
Traffic, Motor, *see* Motor transportation as affecting street plans, 2058; Street traffic, 2076.
Traffic, Street, 2076.
Traffic regulation, *see* Street traffic regulation, 2076.3.
Traffic squares, 2197.
Traffic streets, 2170.
Transit, *see* Rapid transit, 2350 ff.
Transportation, 2000 ff.
Trees, Street, 4885.
Tunnels, *see* Rapid transit, 2350 ff; Subsurface utilities, 2850 ff.
Tunnels, Vehicular, 2188.
Types of city plans, 5200 ff.

U

Undeveloped land, *see* Platting, 770; 1800; Districts, Agricultural, 1715; Land subdivision, 3000 ff.; Regional planning, 6100.
Unearned increment, *see* Land, Urban, 1563 ff.
Unemployment, Public improvements as relief, 1438.
Universities, relation to city plan, 3722.
Universities, teaching of city planning, 900 ff. *See also* p. 47 ff.

V

Vacant-lot gardens, 4905.
Values, Land, 1563.
Vegetation, in cities, *see* Planting, in cities, 4800 ff.
Vehicles, *see* Street traffic, 2076.
Vehicular tunnels, 2188.
Villages, 5605.
"Villages," Industrial, *see* Districts, Residential, Low cost, 1697; Cities, Industrial, 5320.
Villages for disabled ex-service men, 5349.
Vistas, in cities, *see* City planning — Esthetic considerations, 1235 ff.

W

Walks, *see* Footways, 2250 ff.
Walls, City, *see* City planning — History, 210 ff.
War, Reconstruction after, 1293.
War, Villages for soldiers and sailors disabled in, 5349.
War housing, *see* Housing, Governmental, 1431.
War memorials, 1292.
Waste disposal, 1460 ff.
Water, in cities, *see* Waterfronts, Commercial, 2550 ff.; Fountains, Civic, 3845; Waterfronts, Recreational, 4370 ff.
Water distribution, 2885.
Water parks, *see* Waterfronts, Recreational, 4370 ff.
Water-supply, 1456; 2885. *See also* National planning.
Water-supply reservations, 4165.
Waterfronts, Commercial, 2550 ff.
Waterfronts, Recreational, 4370 ff.
Watering places, *see* Health resorts, 5333.
Waterways, Inland, 2580; 6620.
Window gardens, 4914.

Winds, as consideration in city planning, *see* Climate, 1330 ff.; Zoning, 1600.
Wires, 2850 ff.
Wires, Overhead — Removal, 2922.

Y

Yard improvement, 4900 ff.

Z

Zone condemnation, 728.
Zoning, 1600.
— Legislation, 765.
— Technical procedure, 870.
Zoölogical parks, 4270.